



1/100

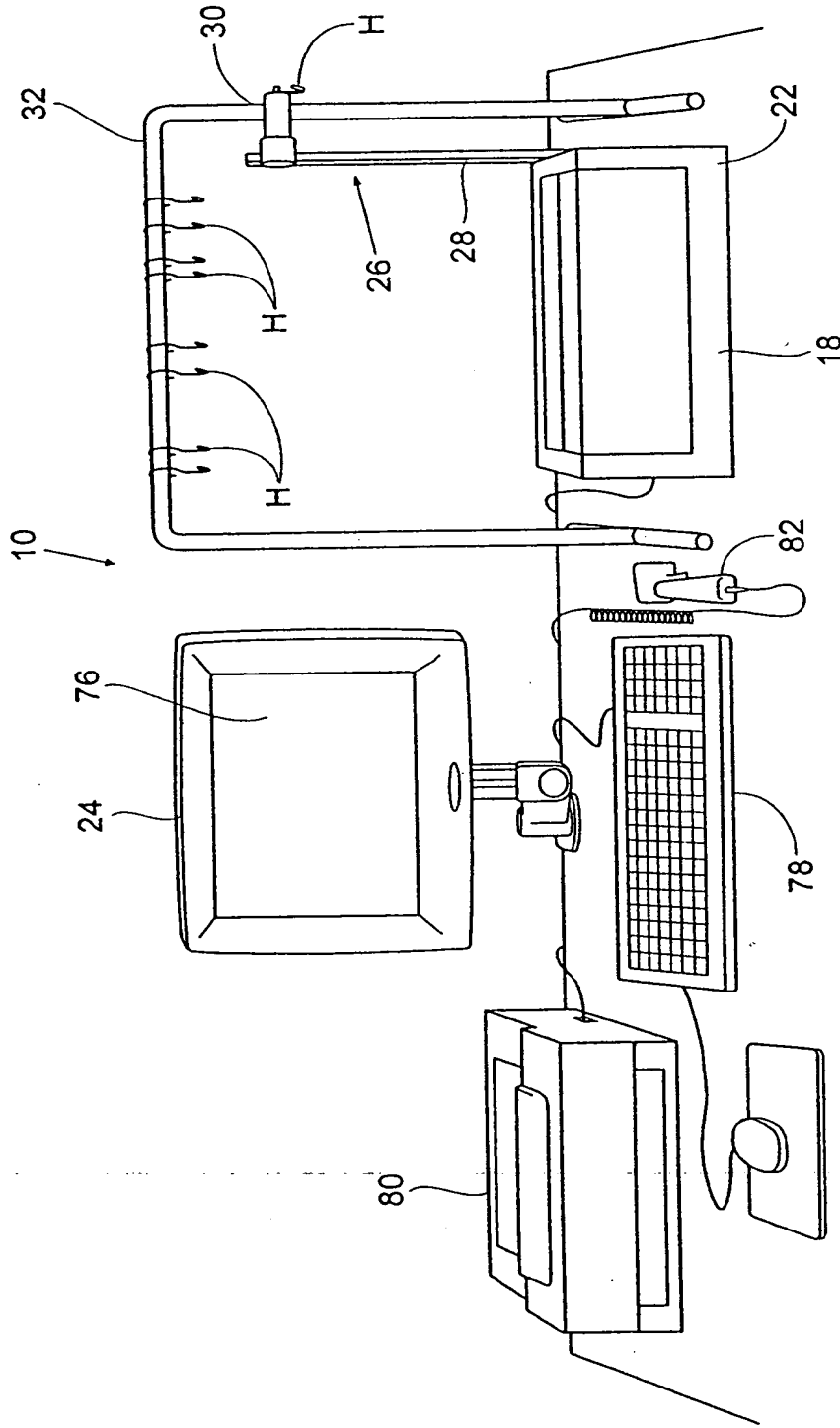


FIG. 1

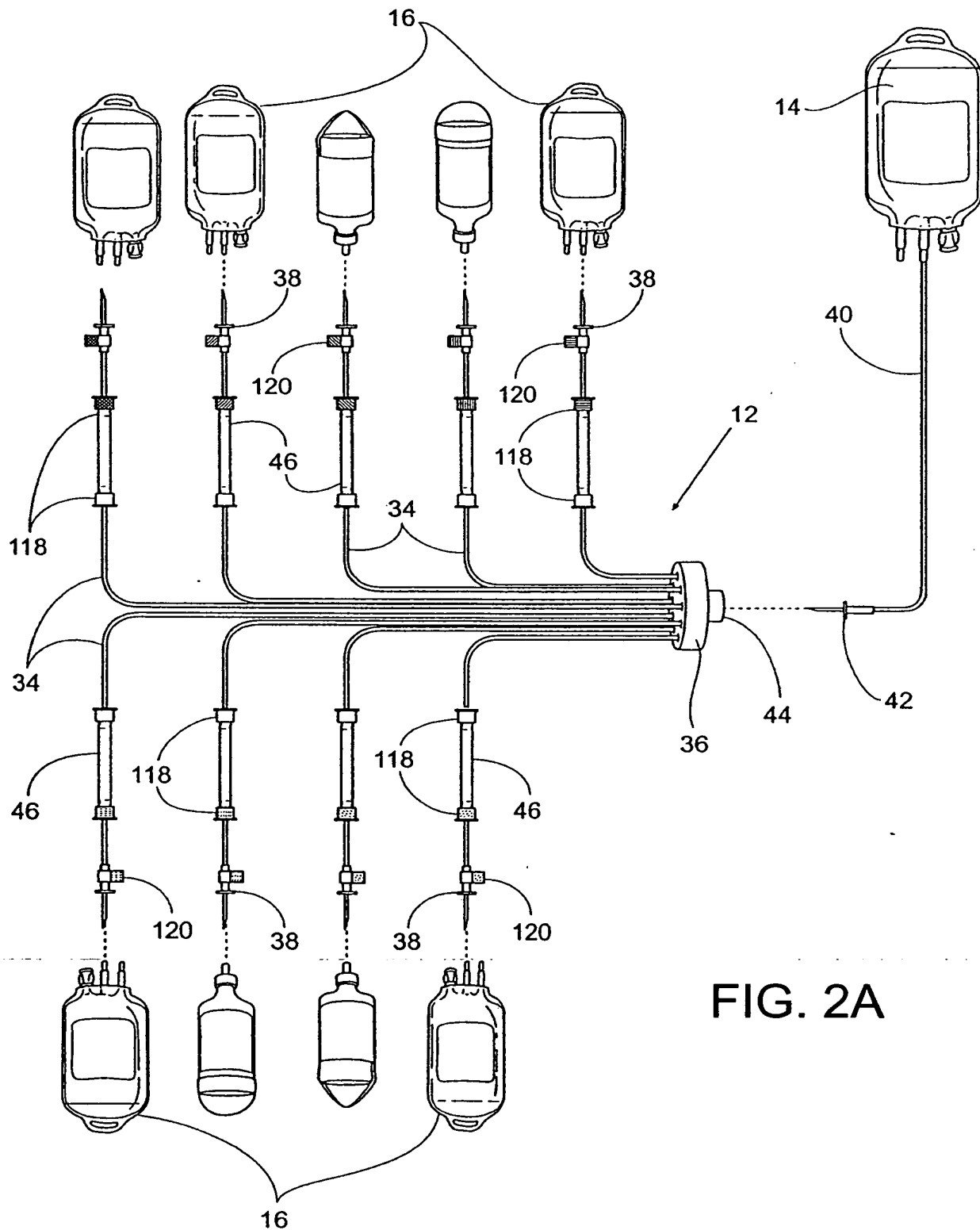


FIG. 2A

3/100

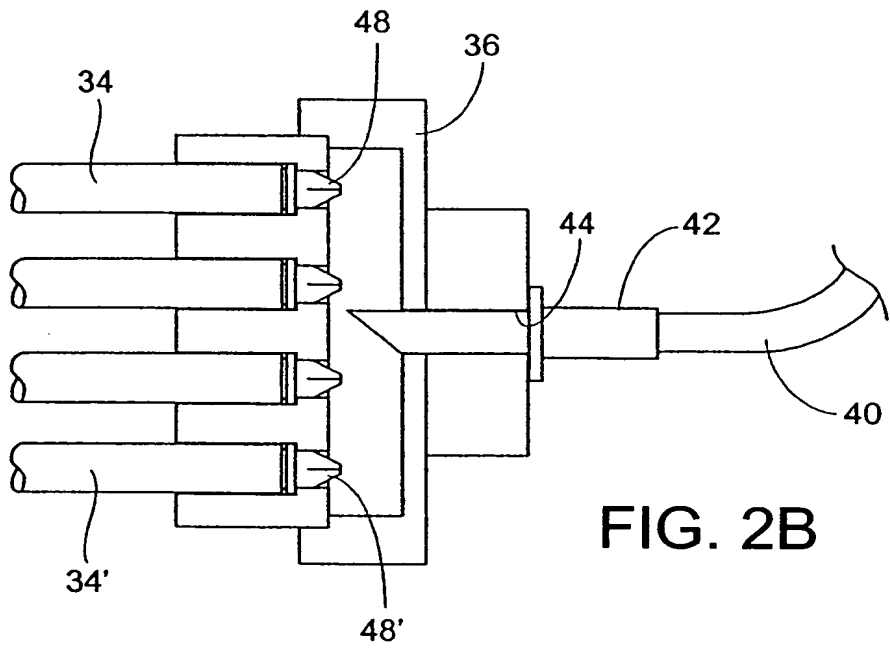


FIG. 2B

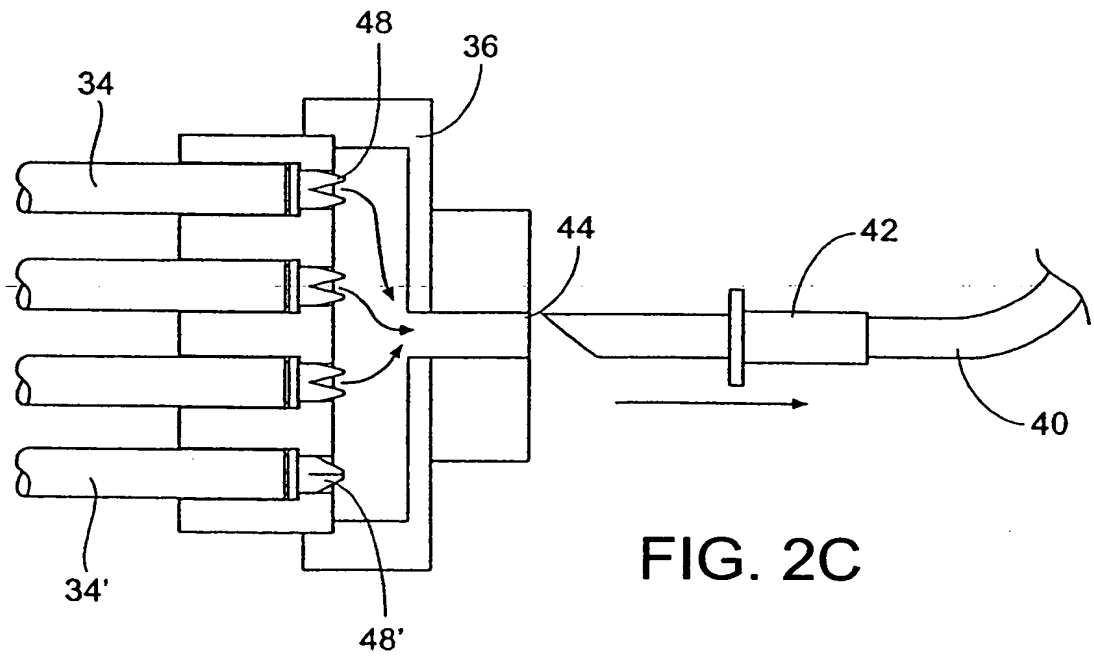


FIG. 2C

+

4/100

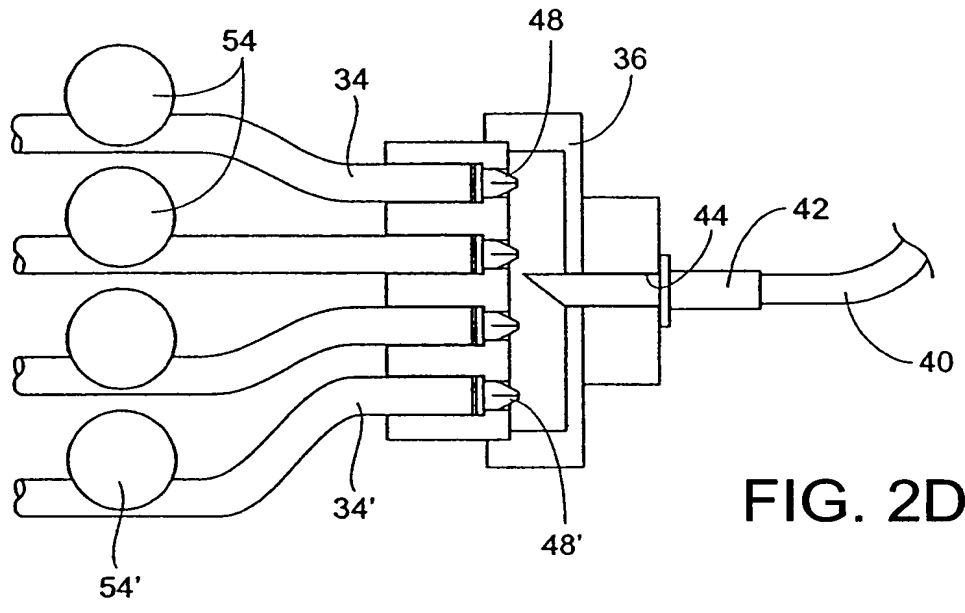


FIG. 2D

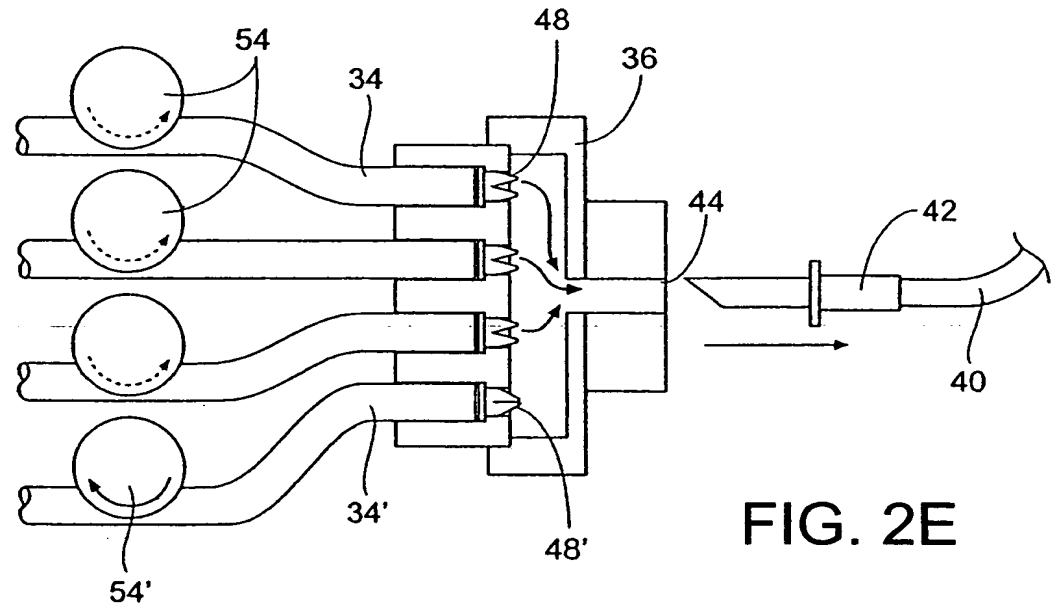


FIG. 2E

+



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12

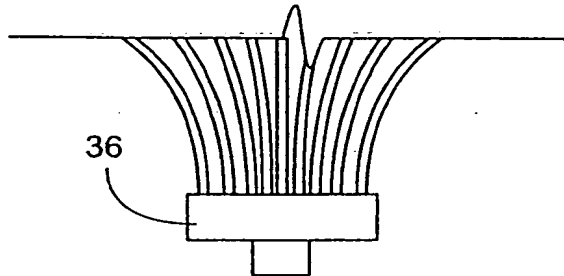
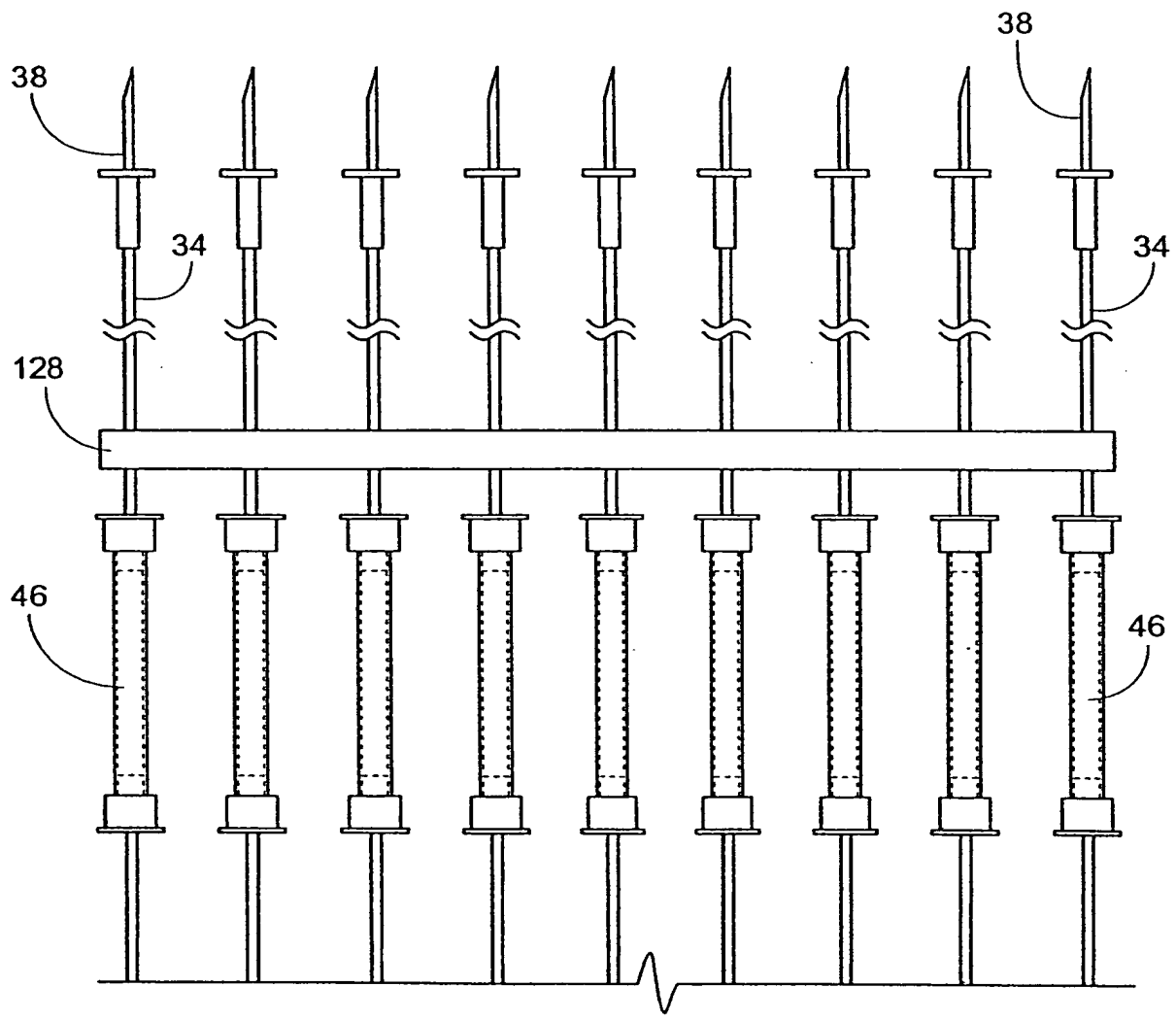


FIG. 2F



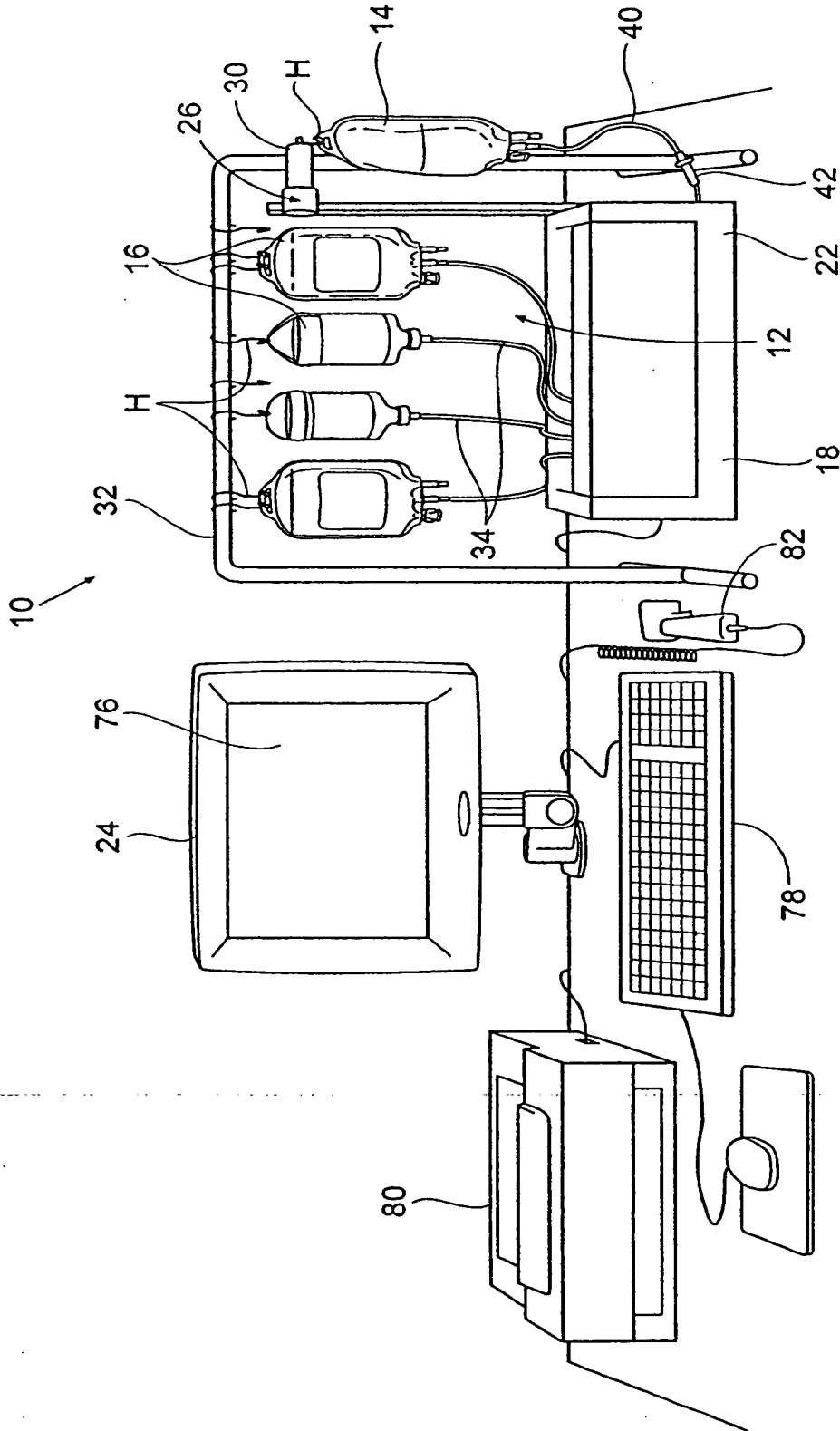


FIG. 3

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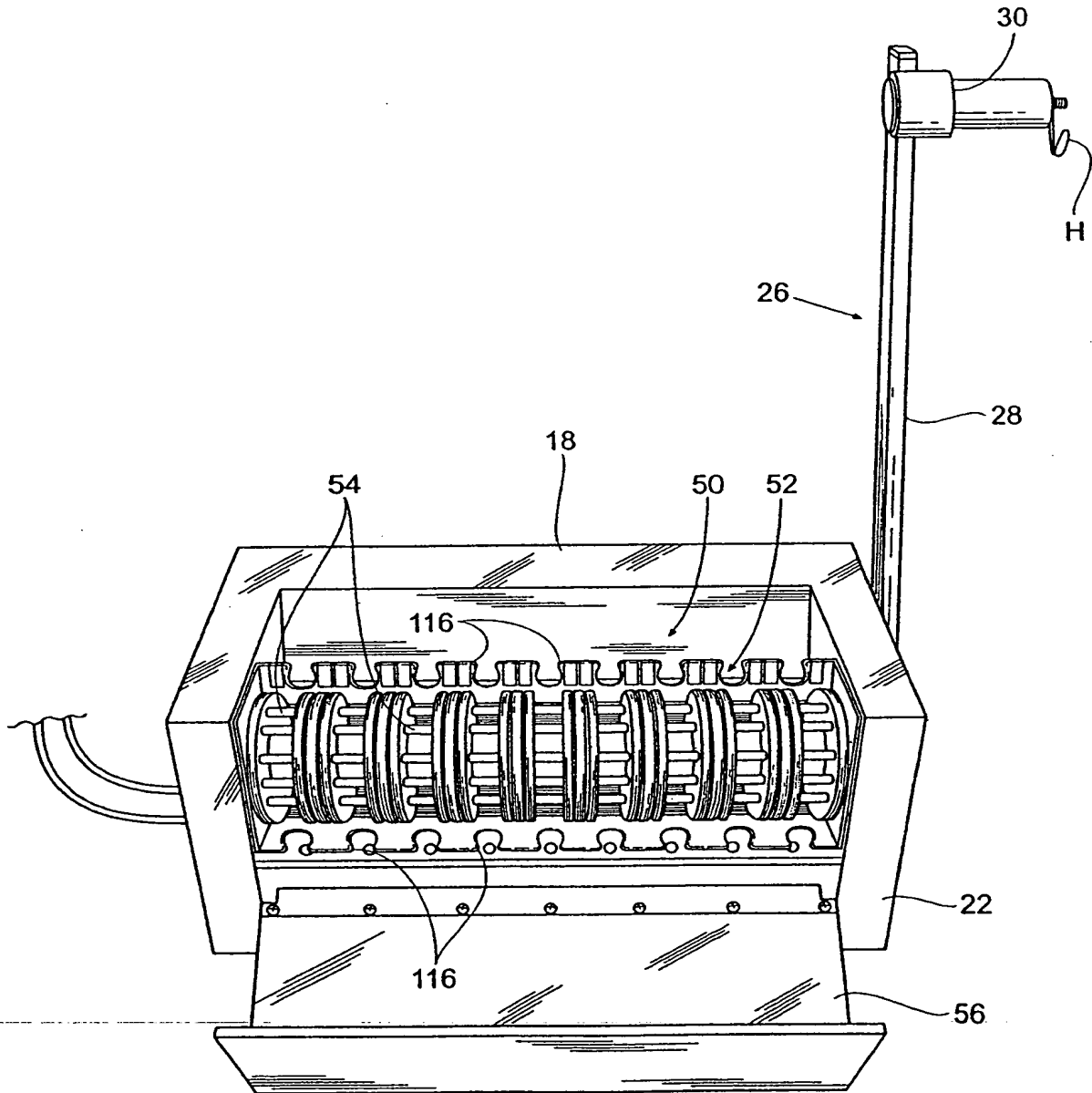


FIG. 4

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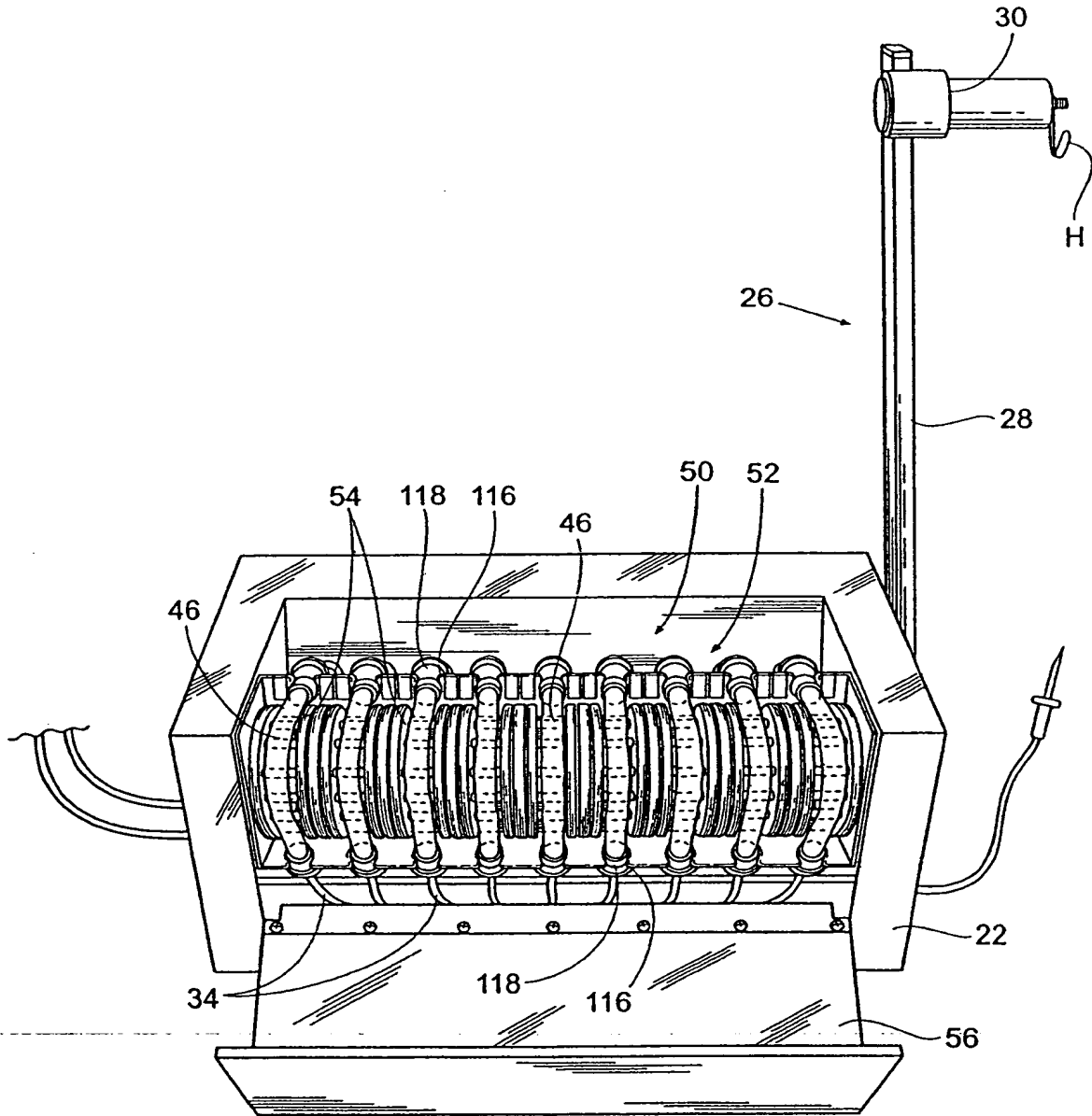


FIG. 5

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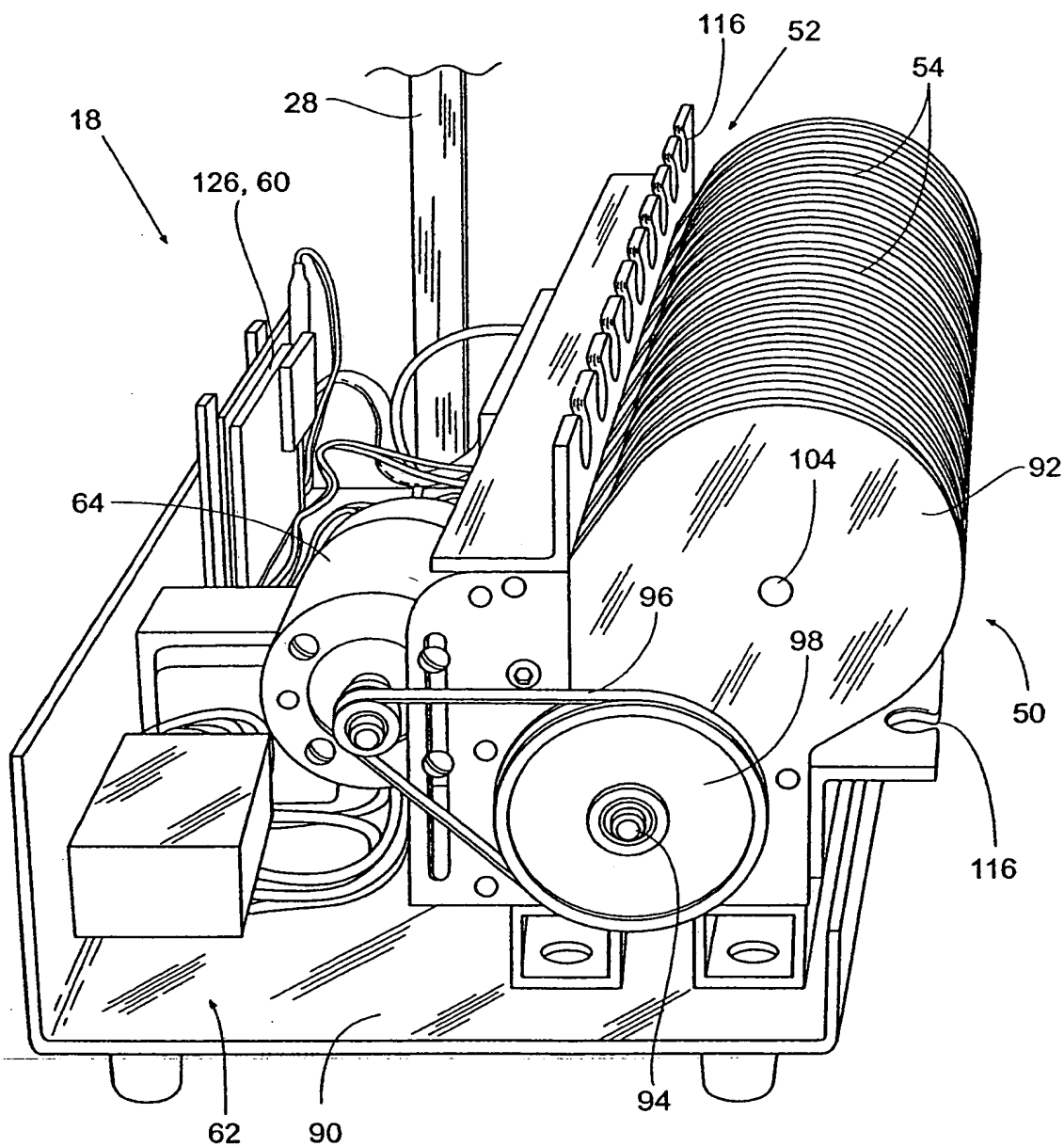


FIG. 6A

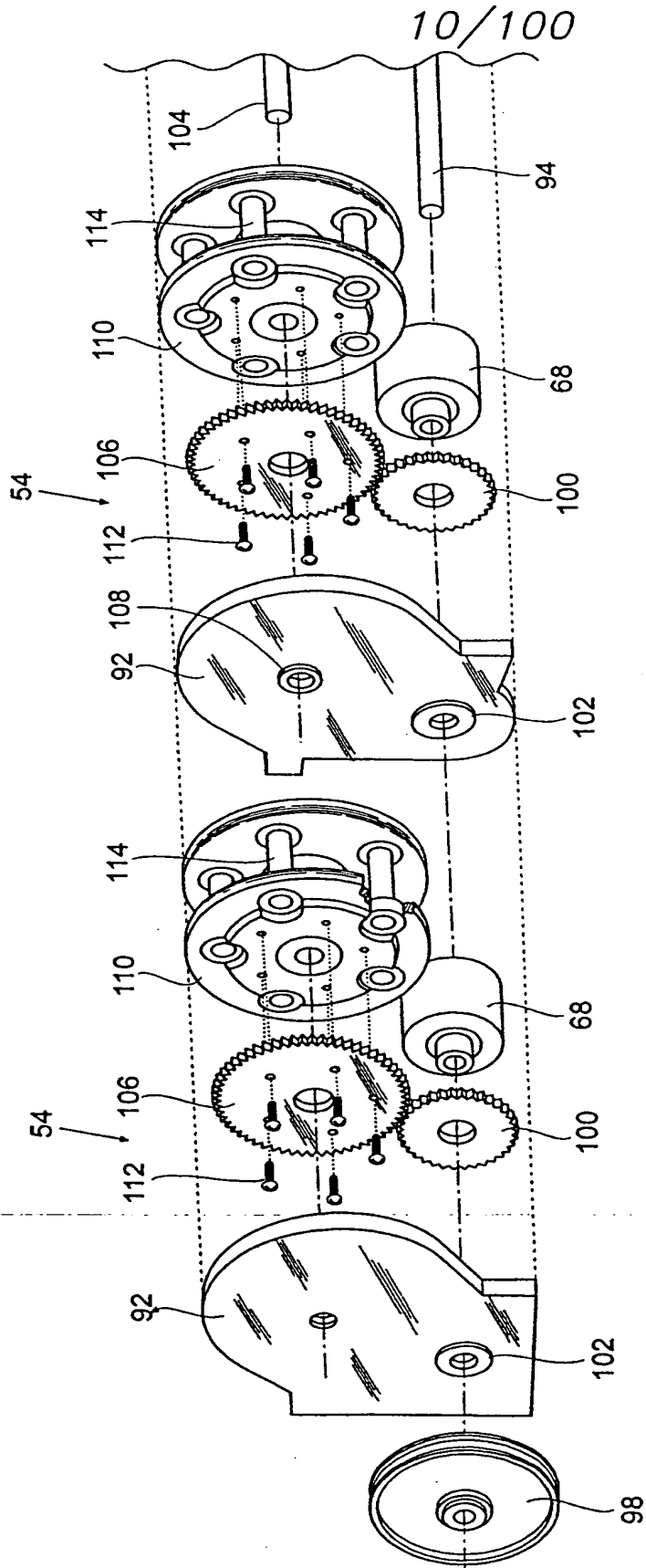


FIG. 6B

11/100

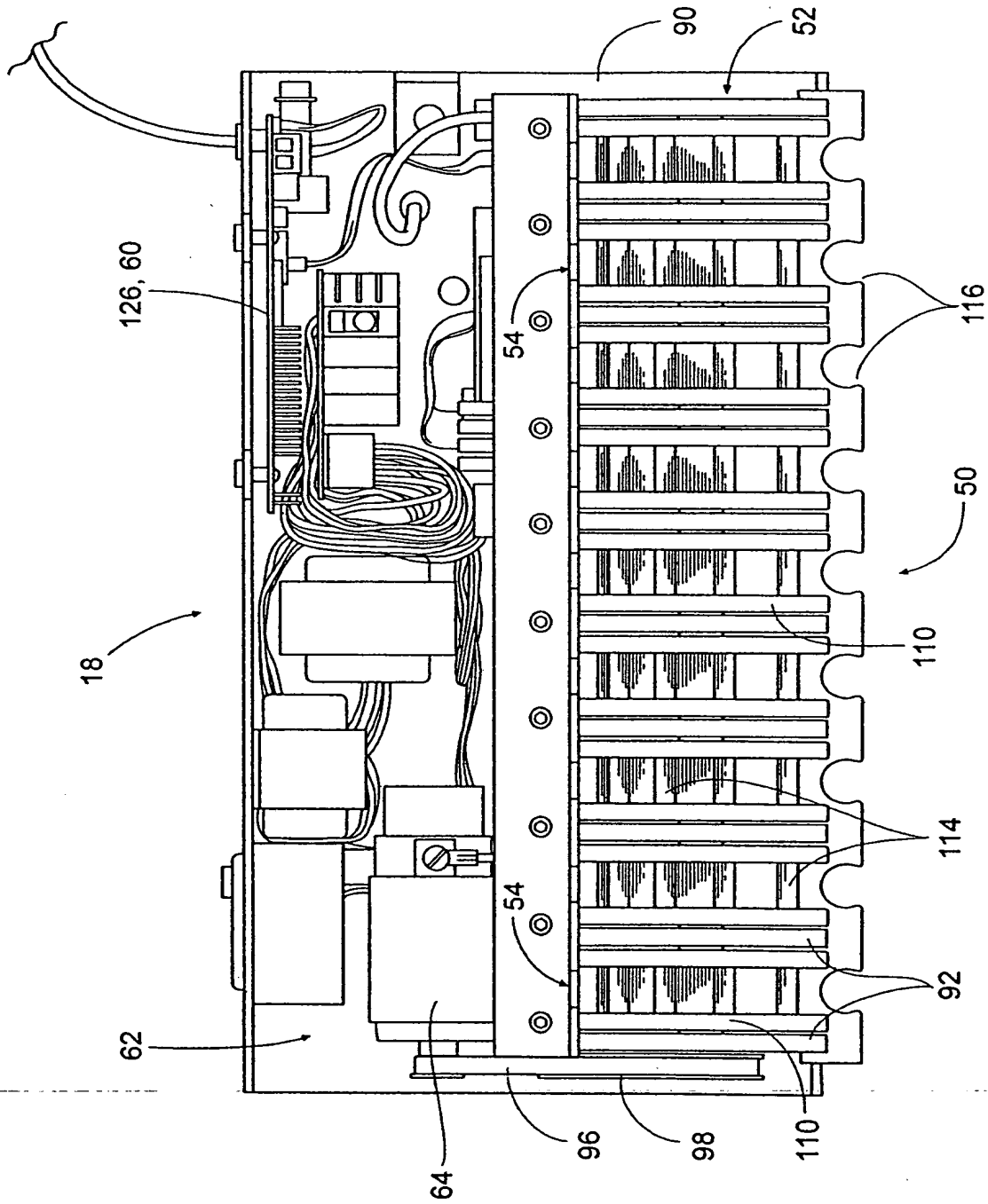


FIG. 7

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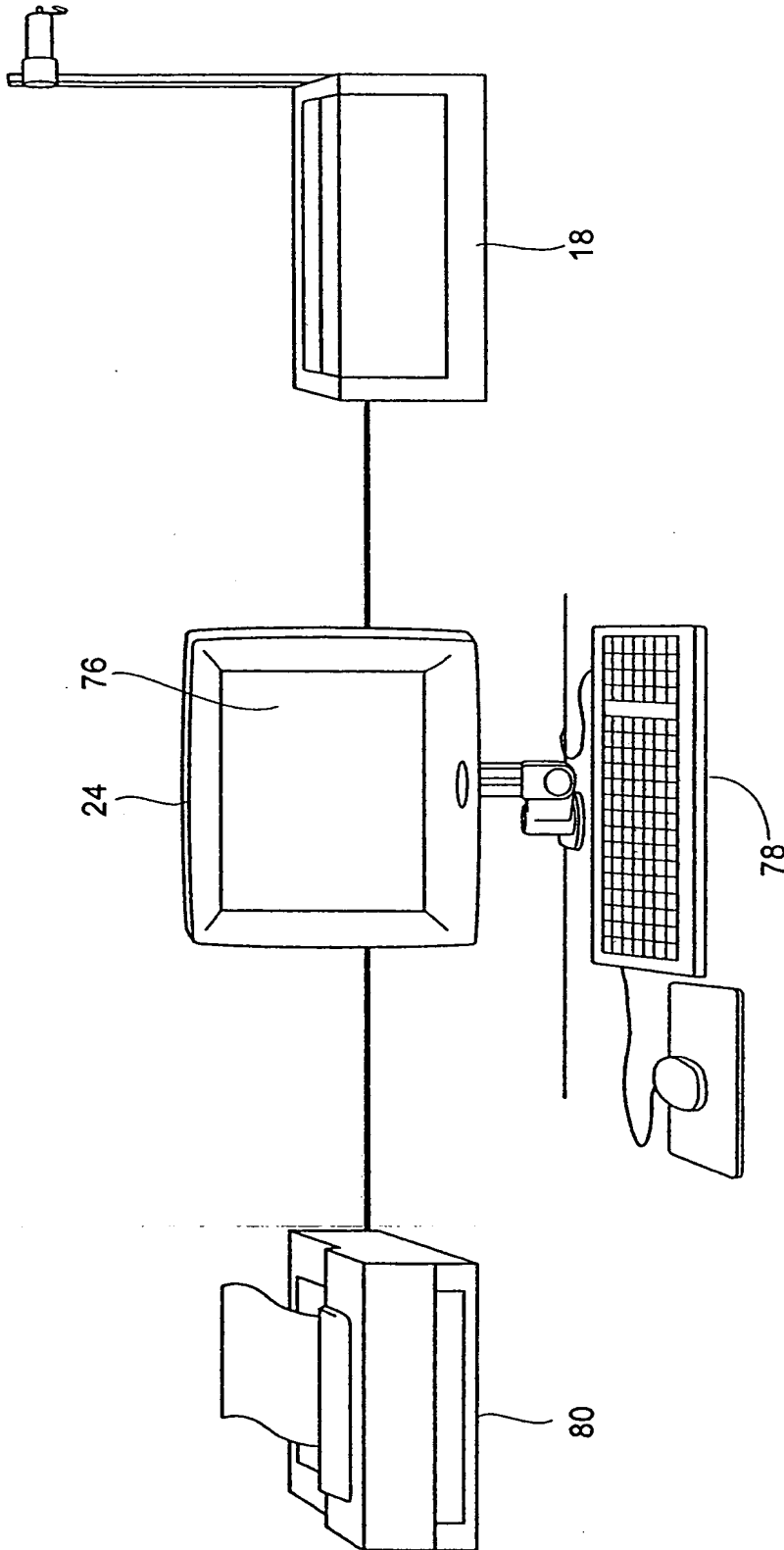


FIG. 8A

13/100

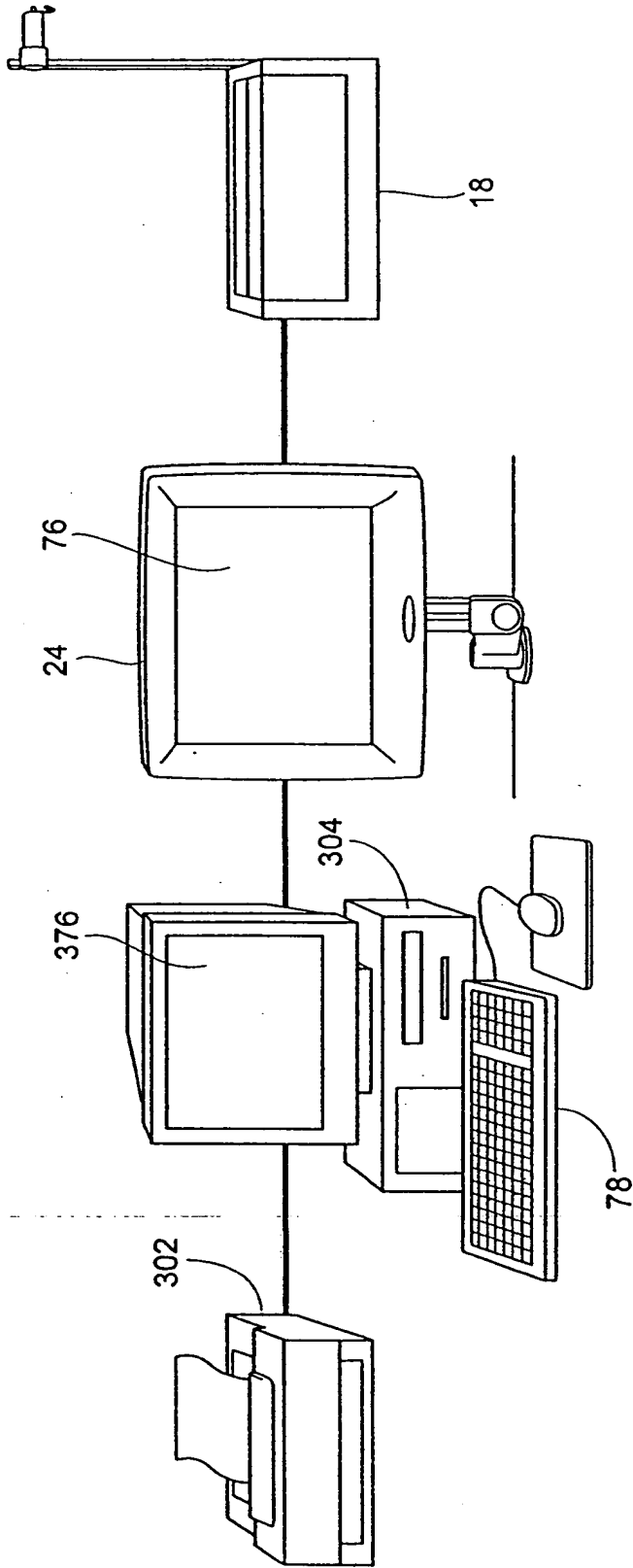


FIG. 8B

14/100

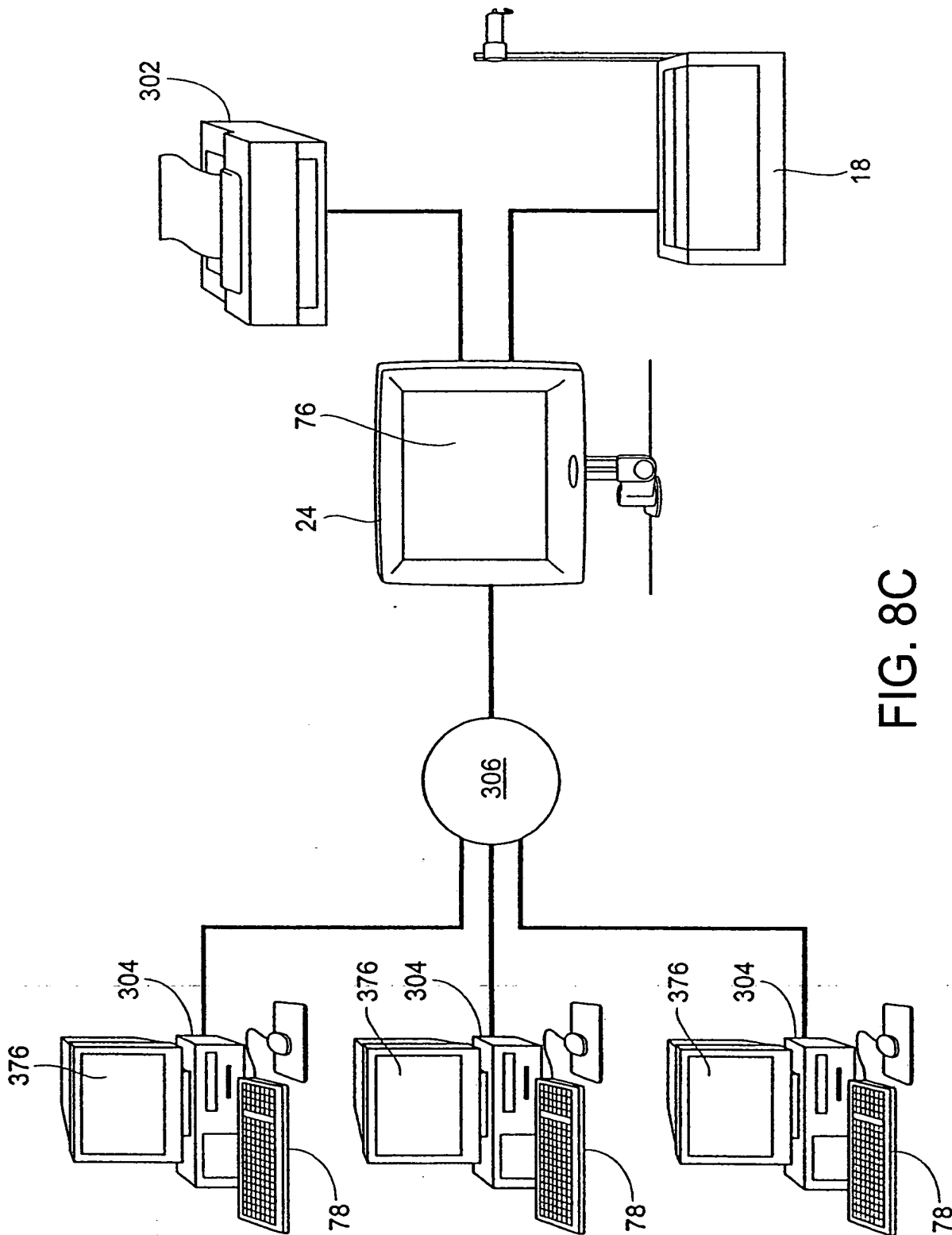


FIG. 8C

15/100

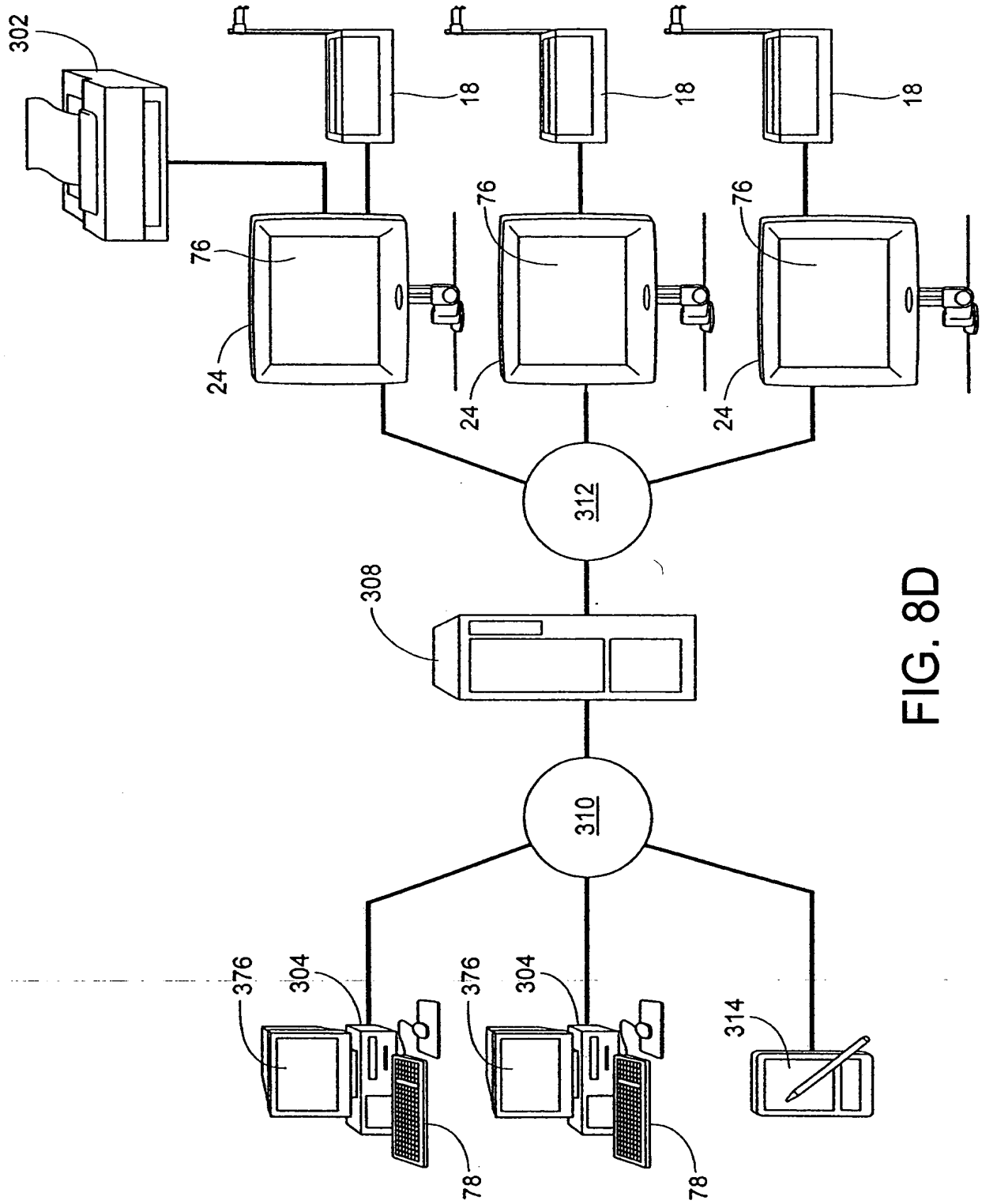


FIG. 8D

16/100

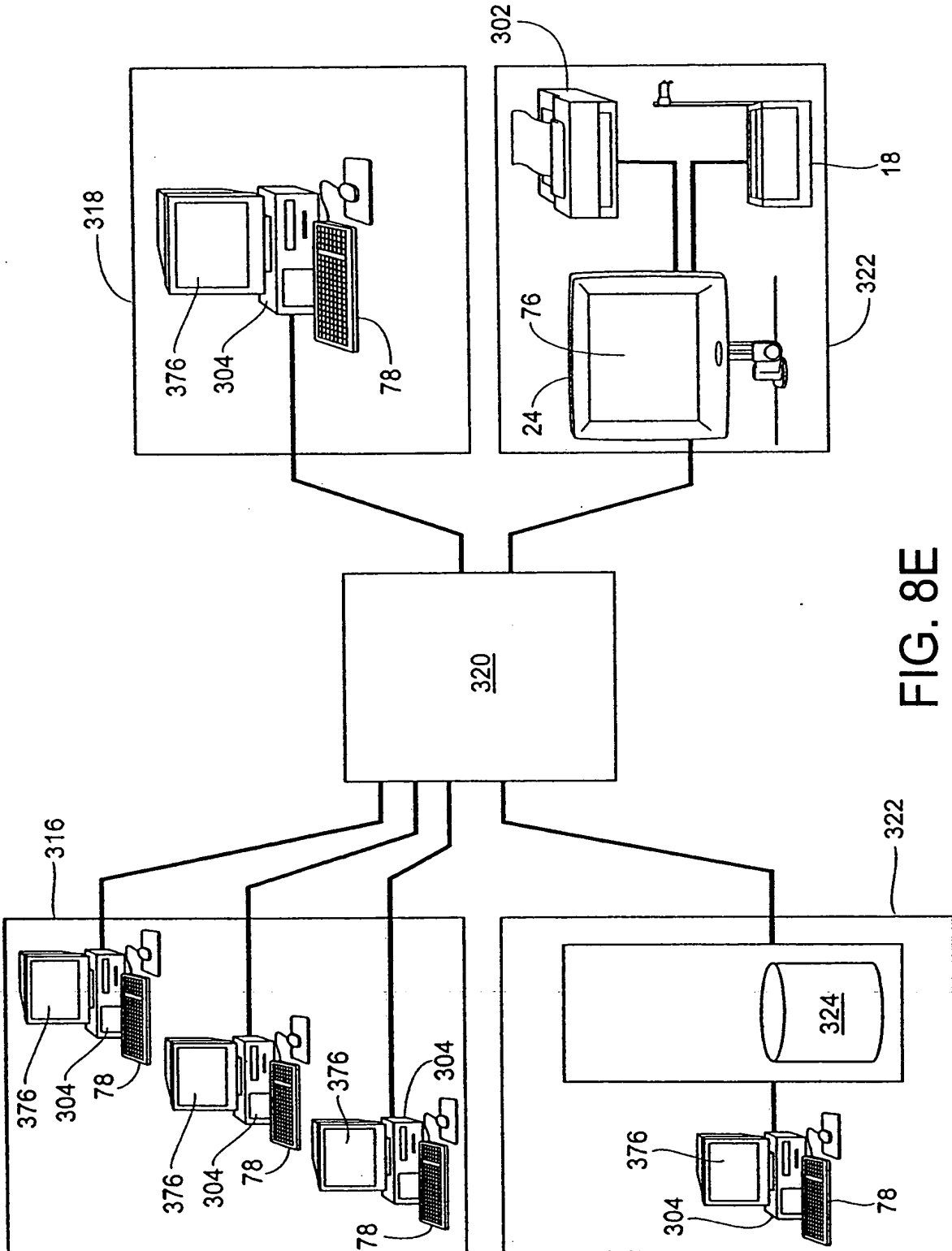


FIG. 8E

17/100

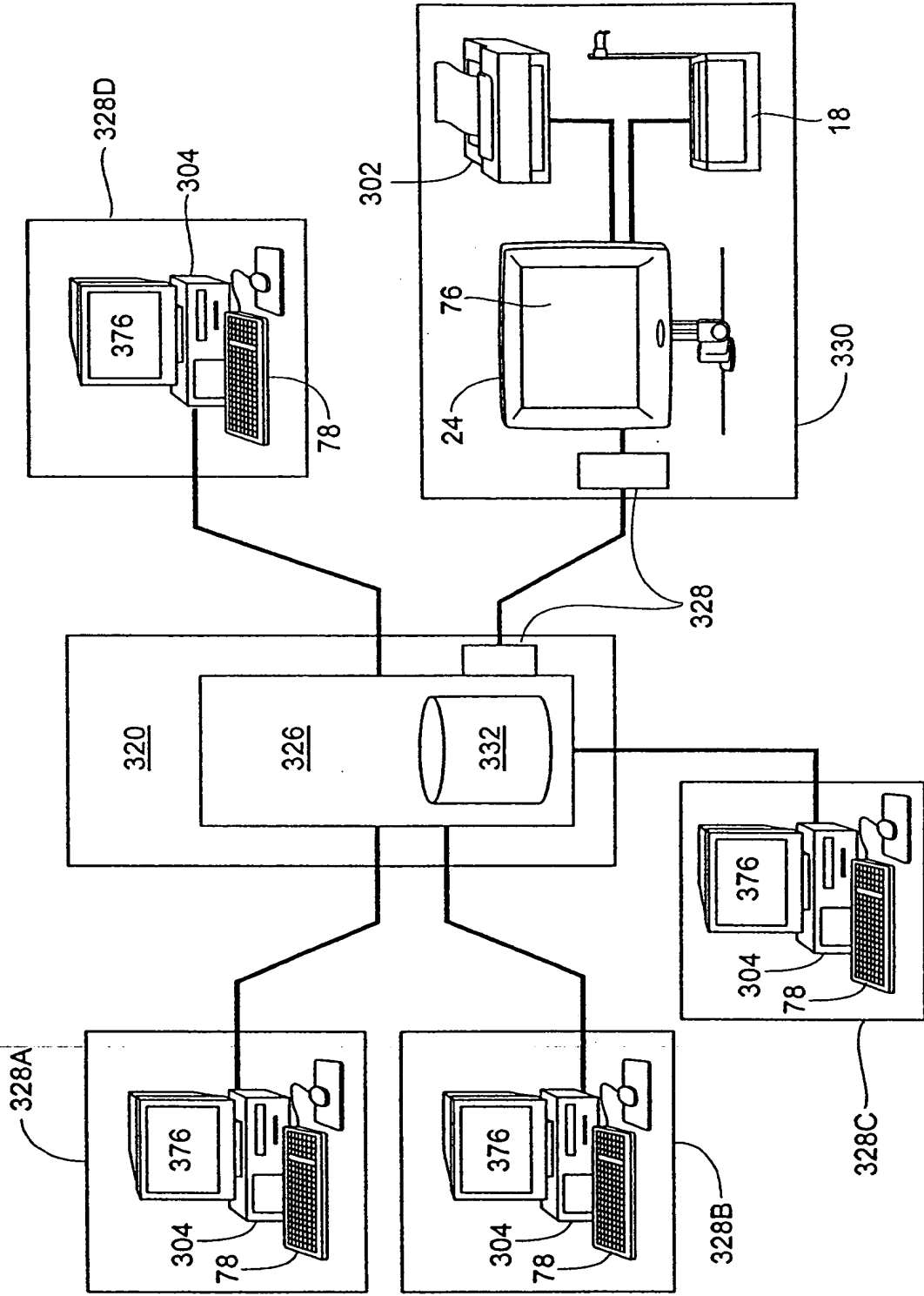


FIG. 8F

18/100

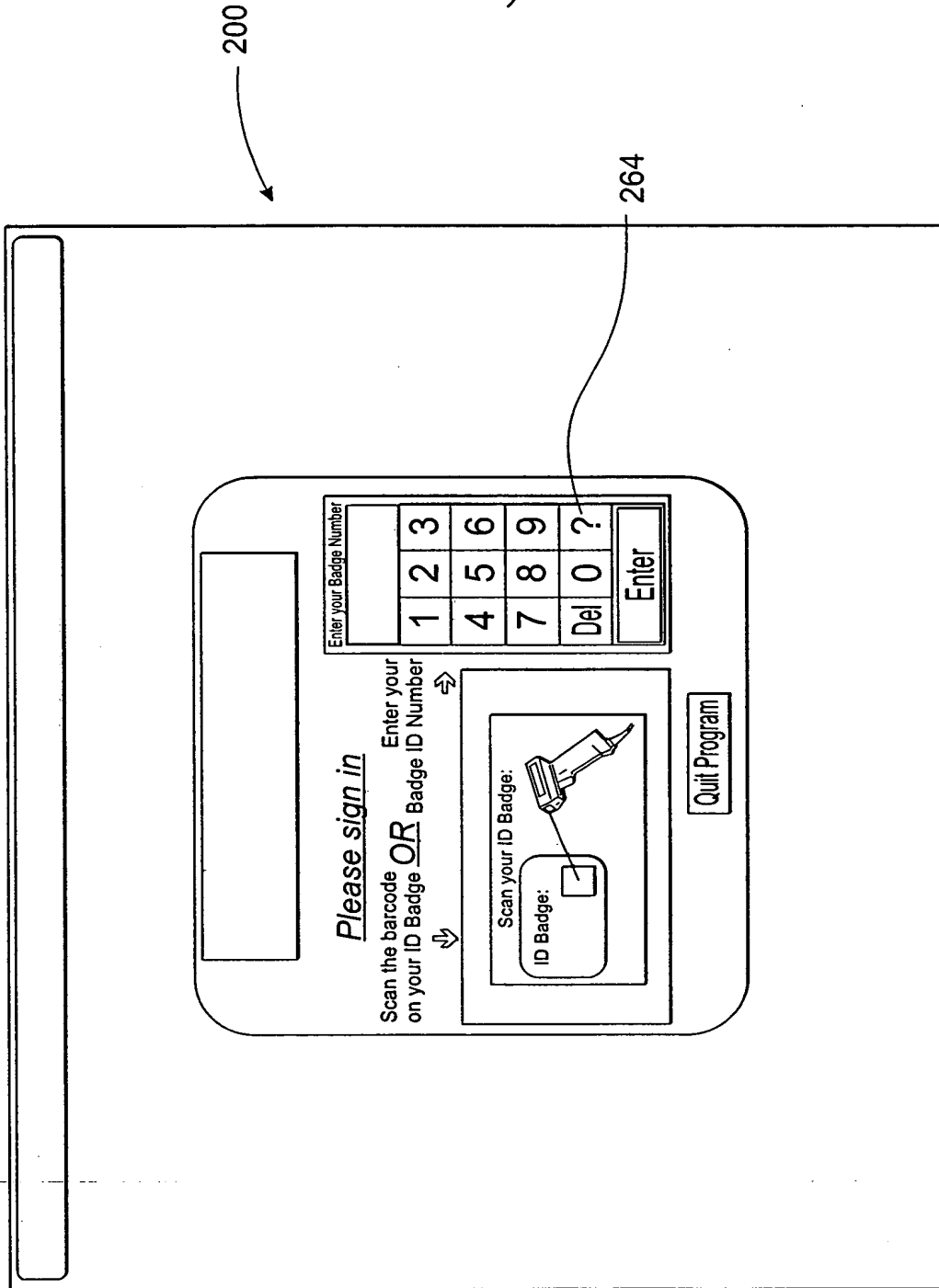


FIG. 9A

19/100

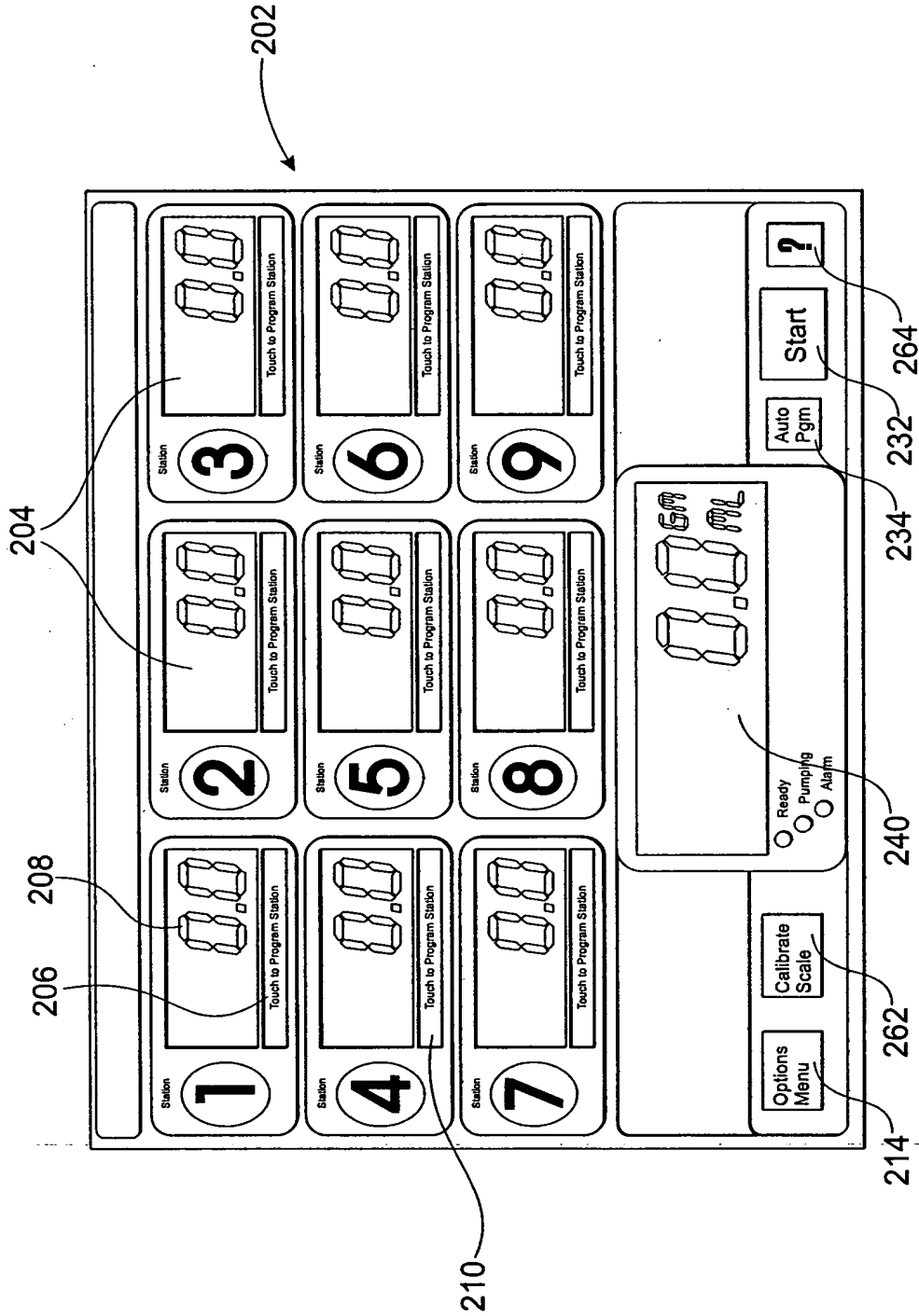


FIG. 9B

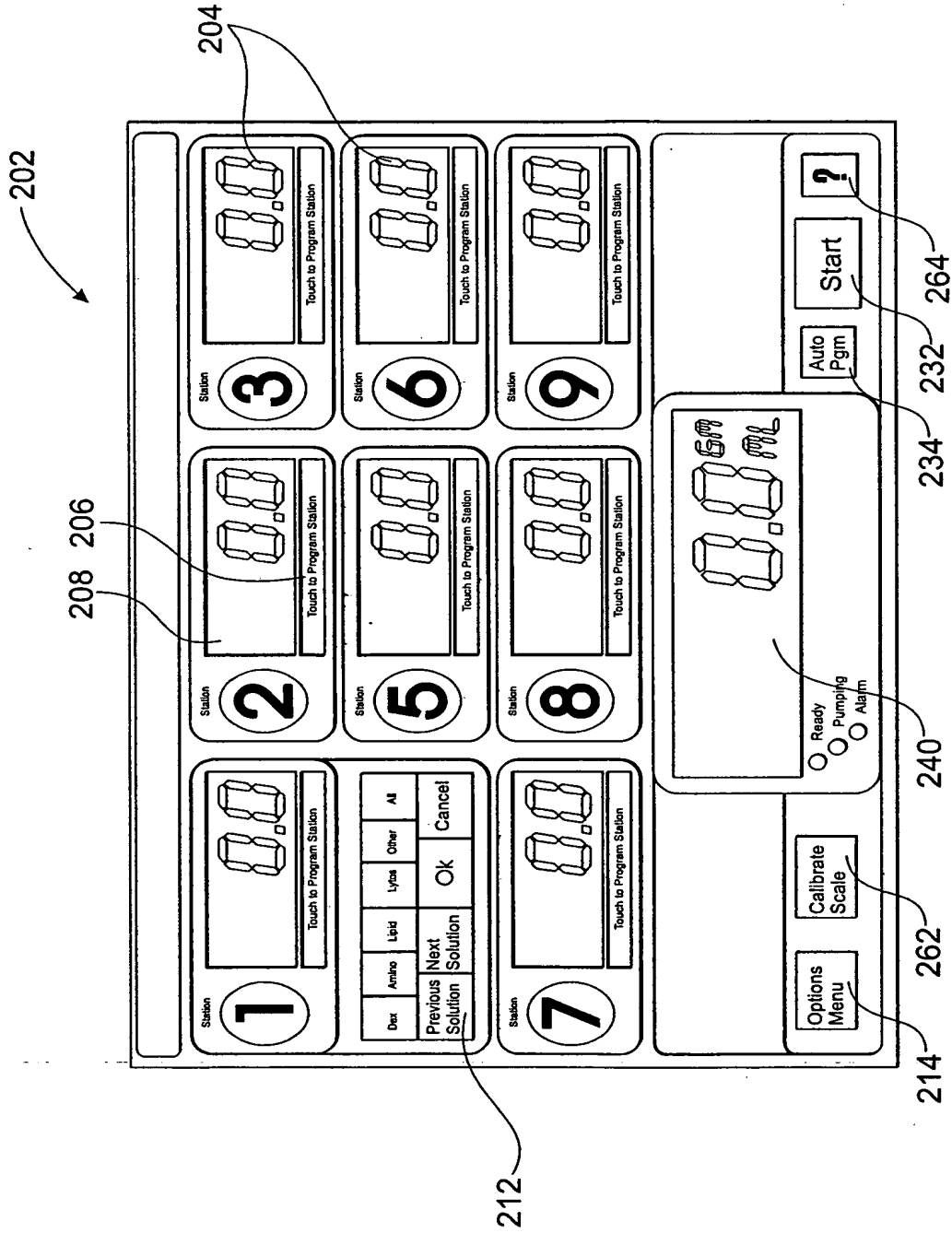


FIG. 9C

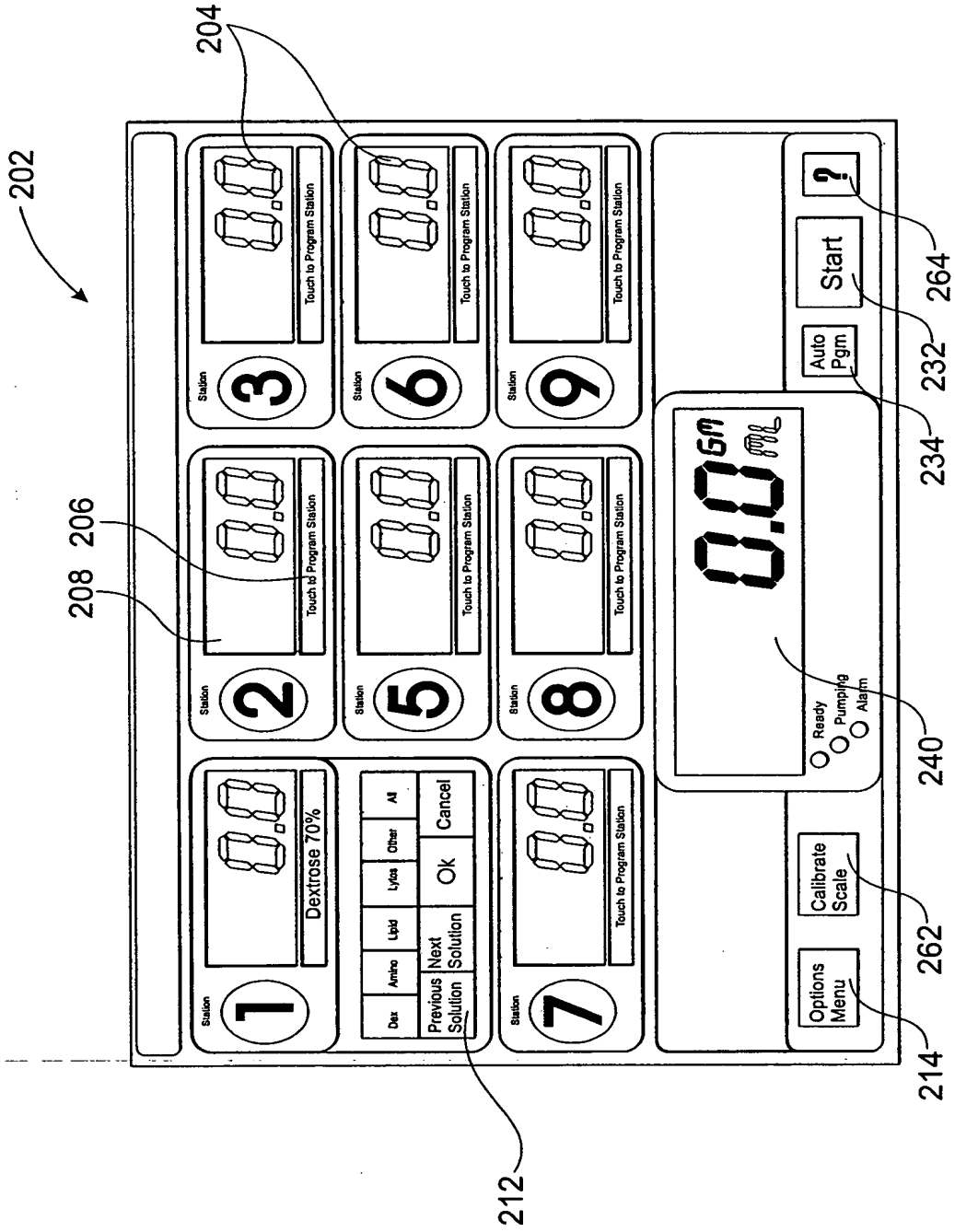


FIG. 9D

202

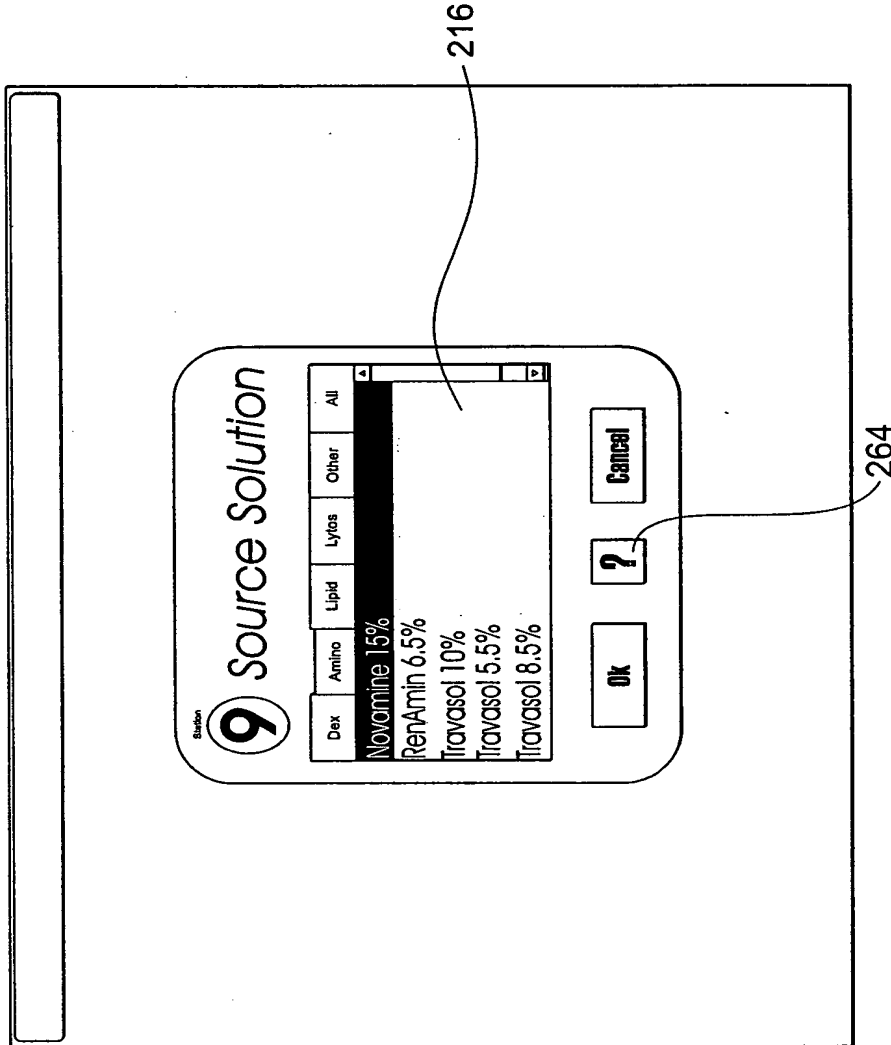


FIG. 9E

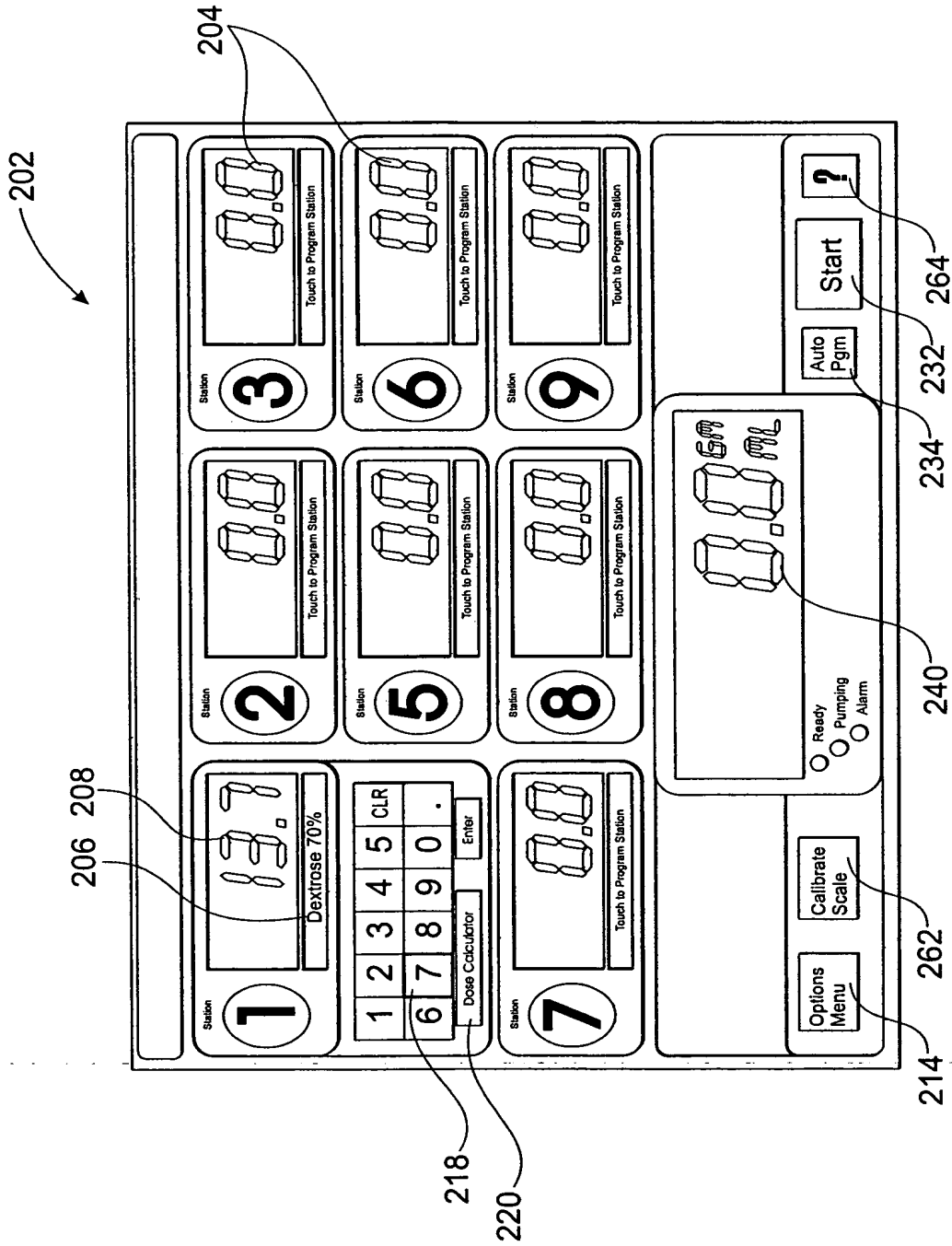


FIG. 9F

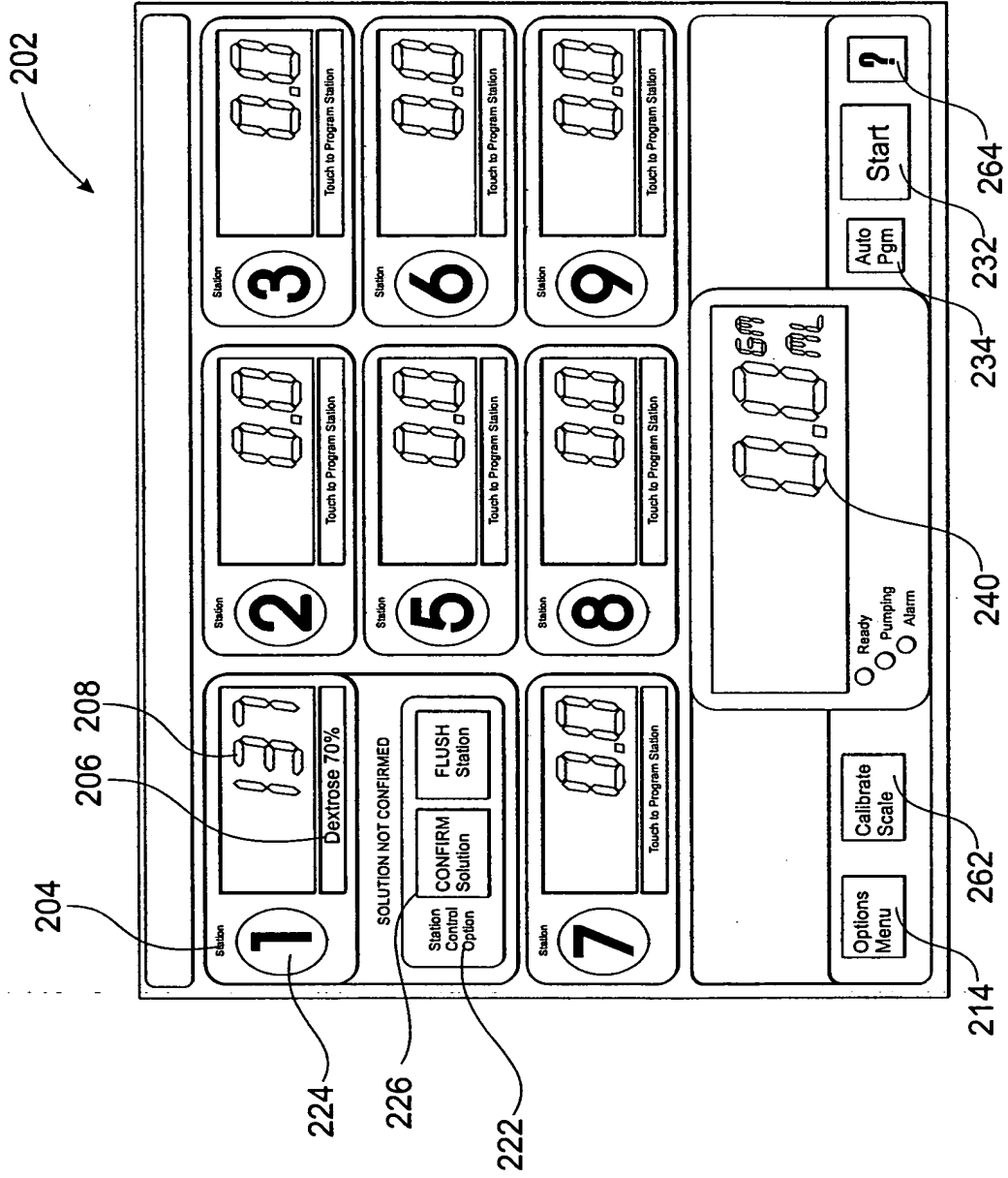


FIG. 9G

902

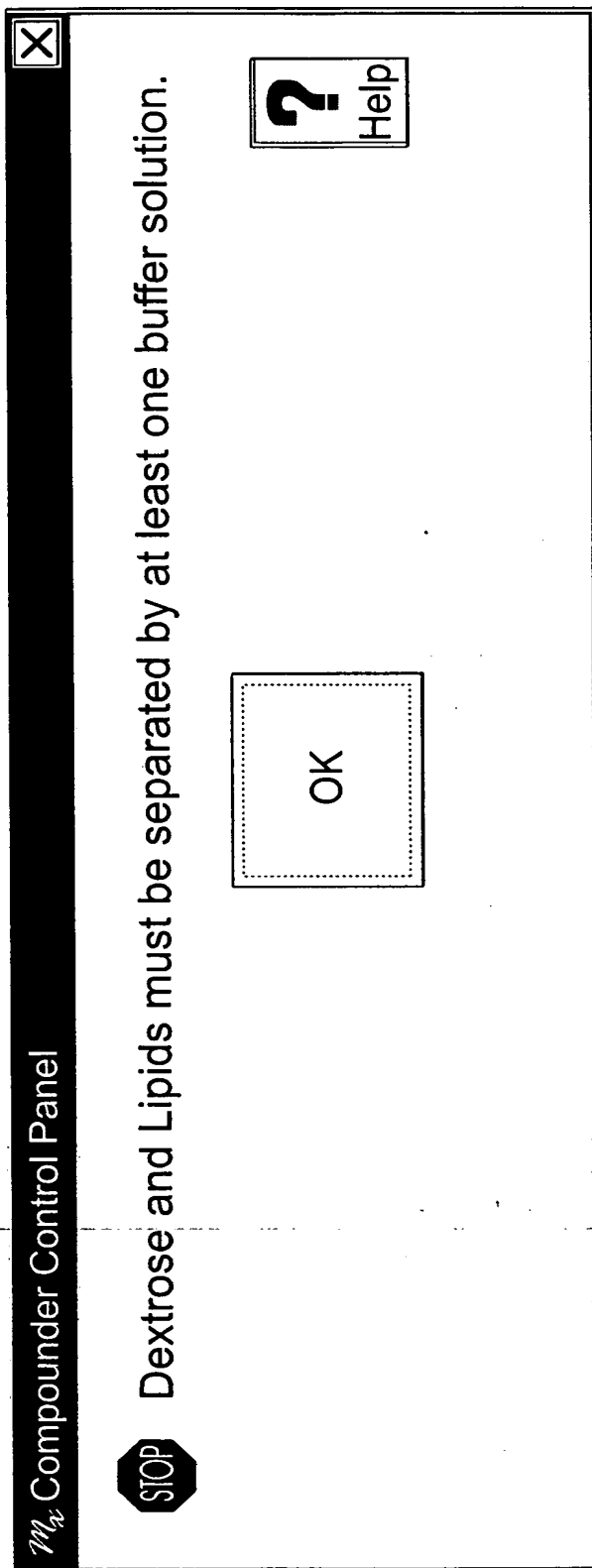


FIG. 9G(1)

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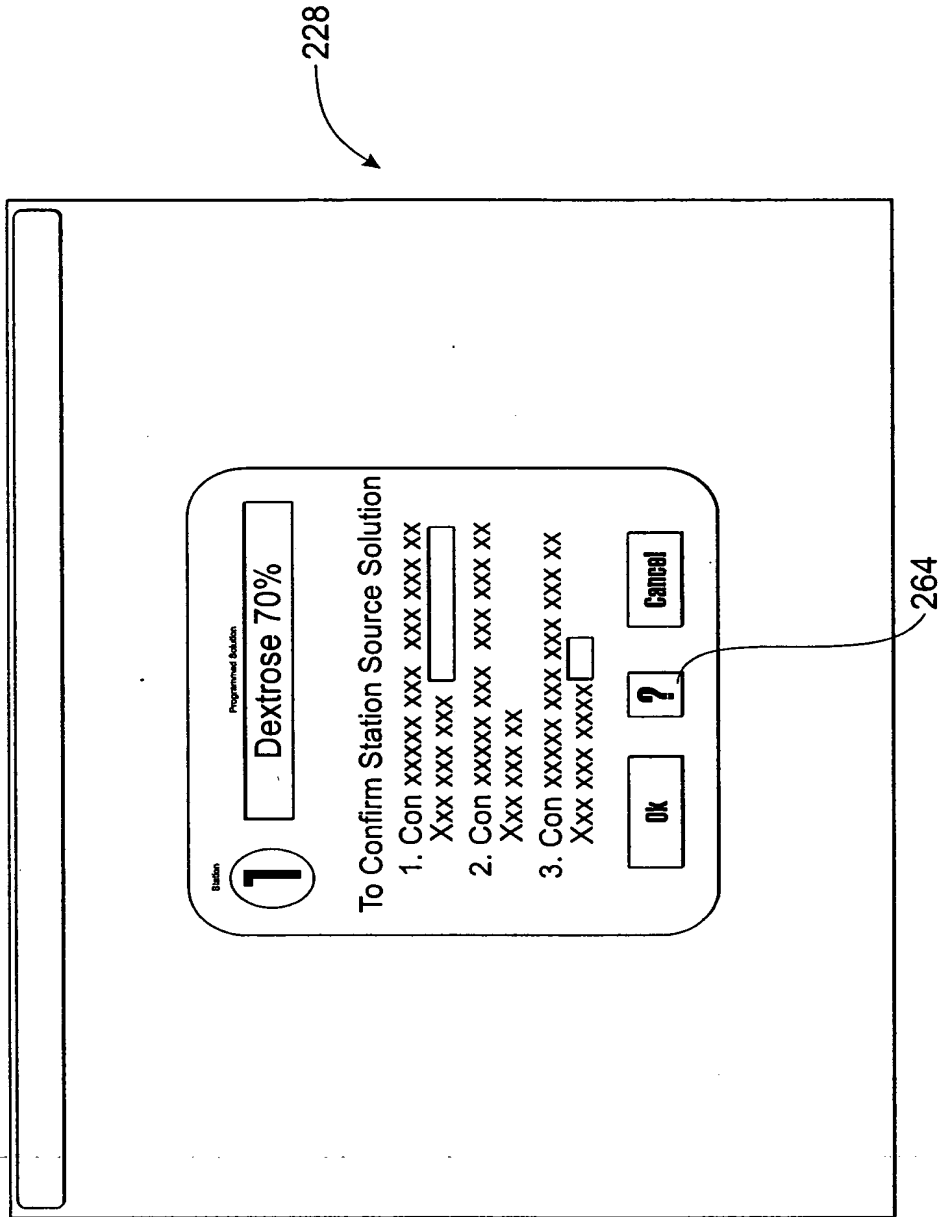


FIG. 9H

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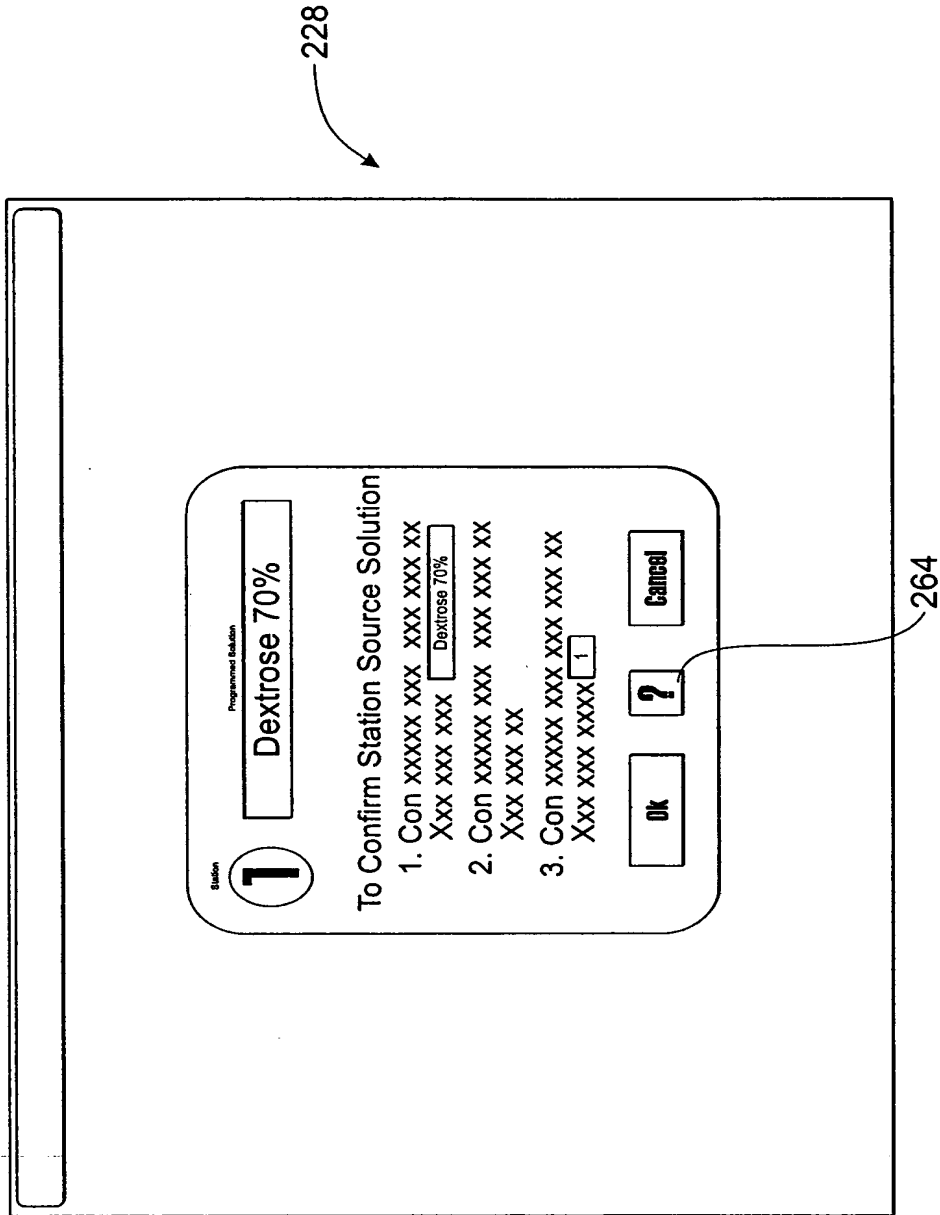


FIG. 9I(1)

900

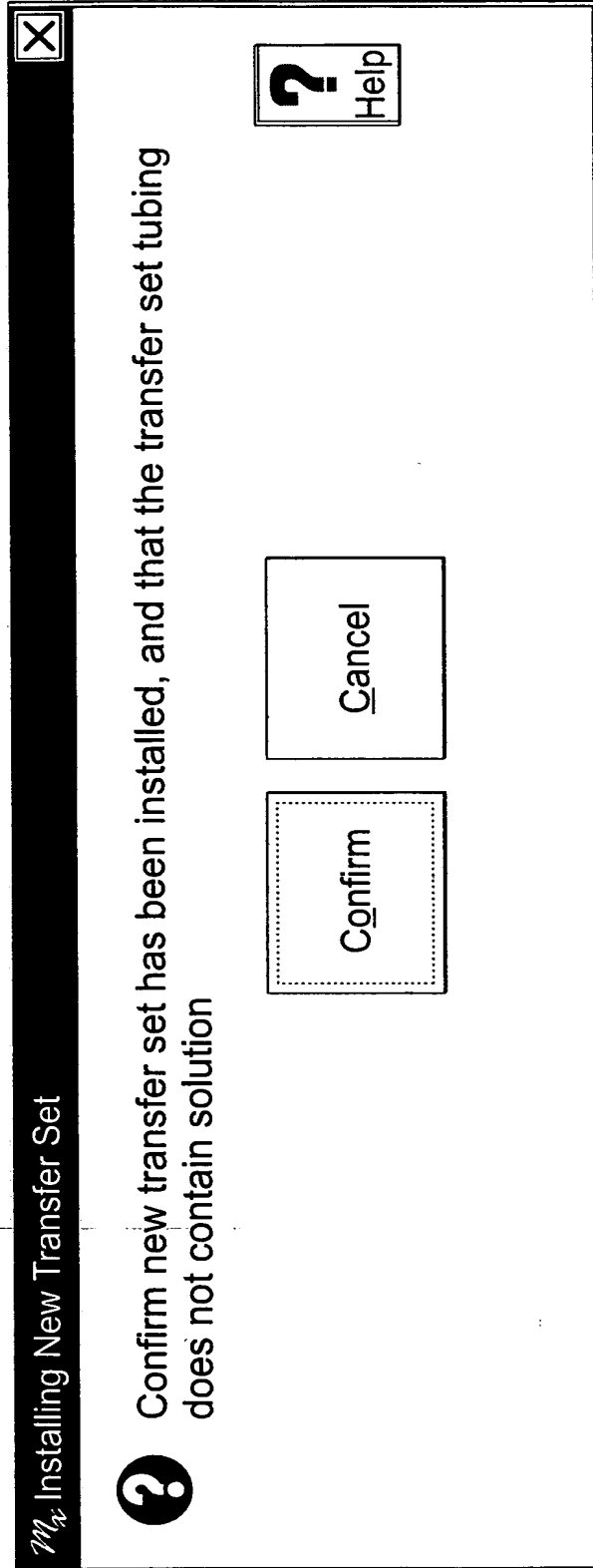


FIG. 9I(2)

904

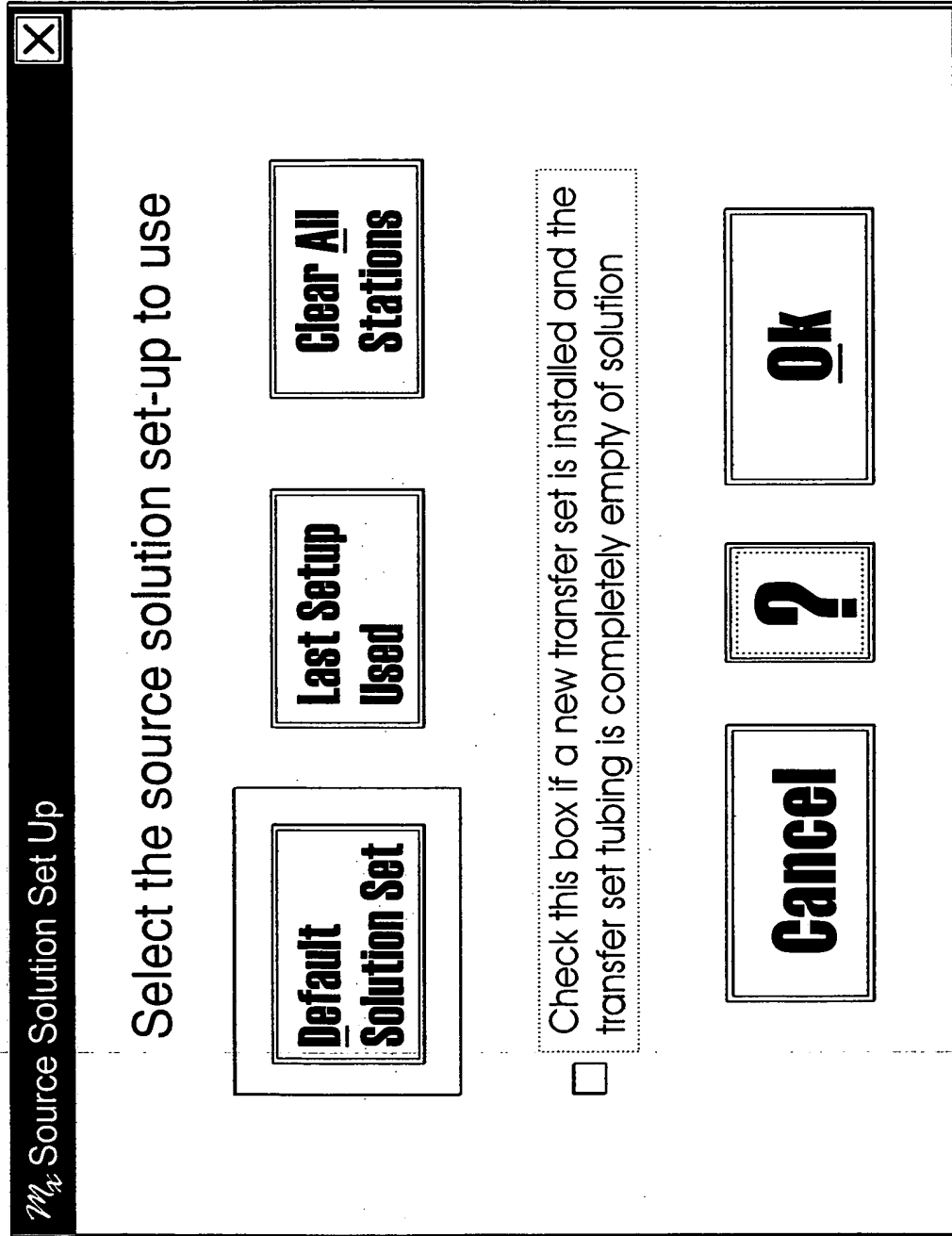


FIG. 9I(3)

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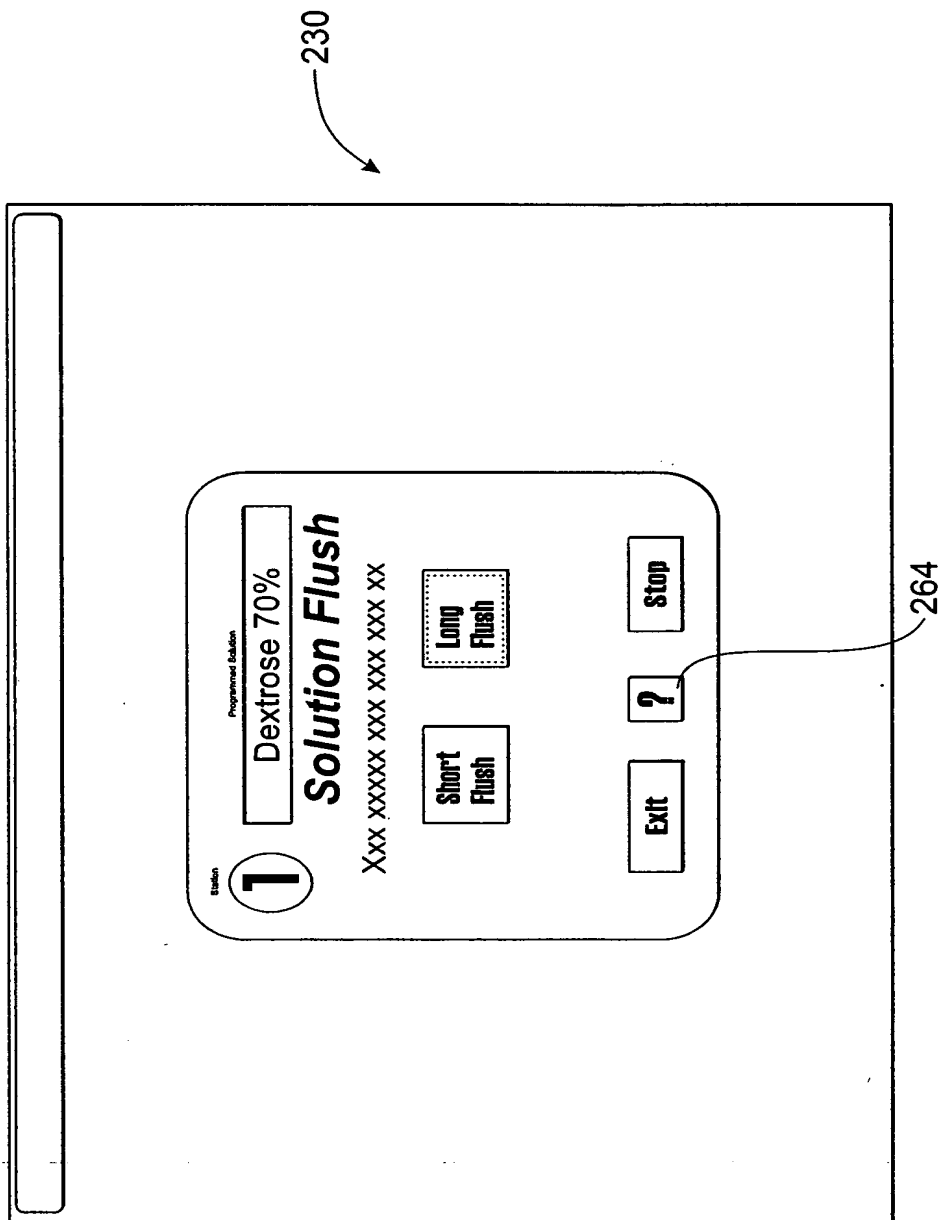


FIG. 9J

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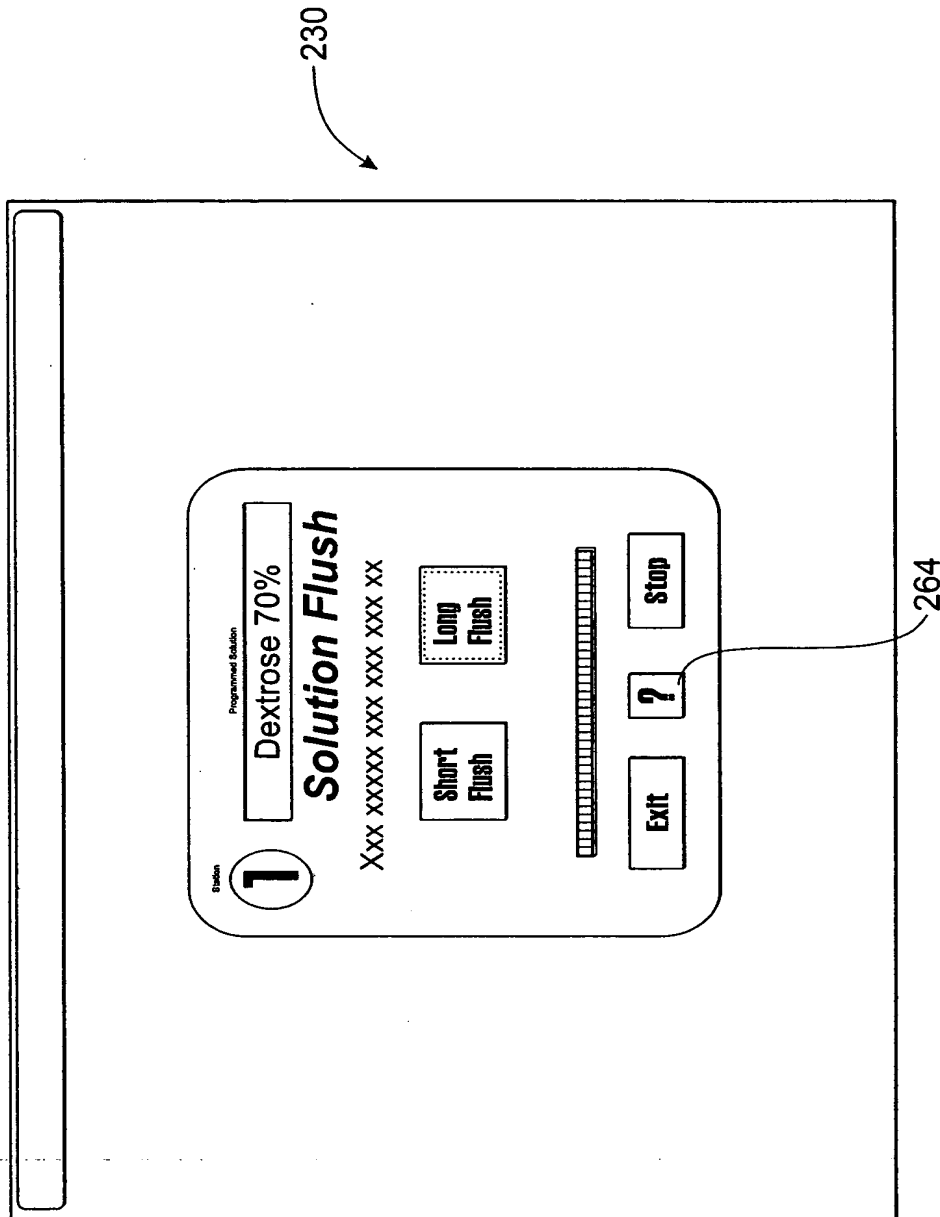


FIG. 9K

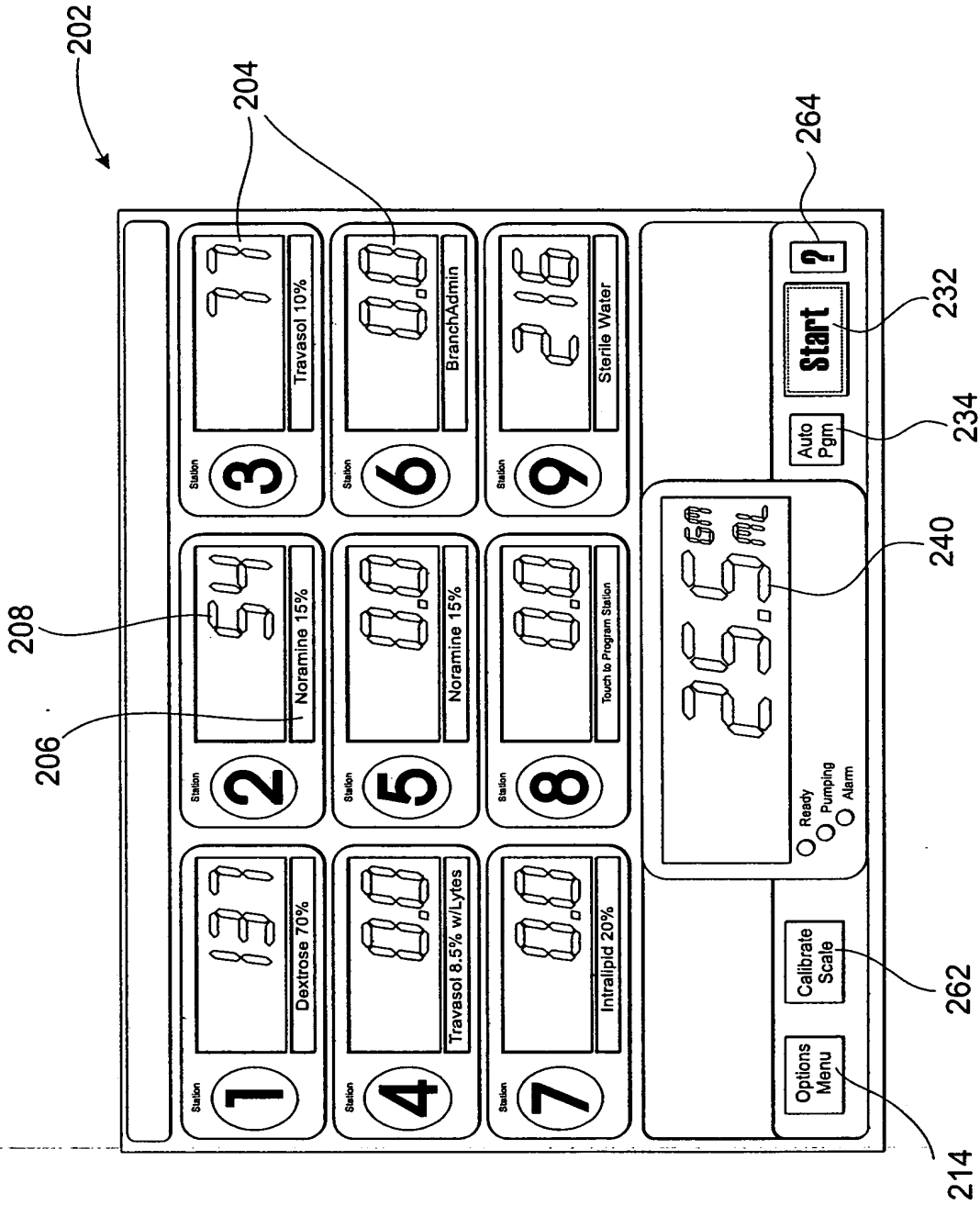


FIG. 9L

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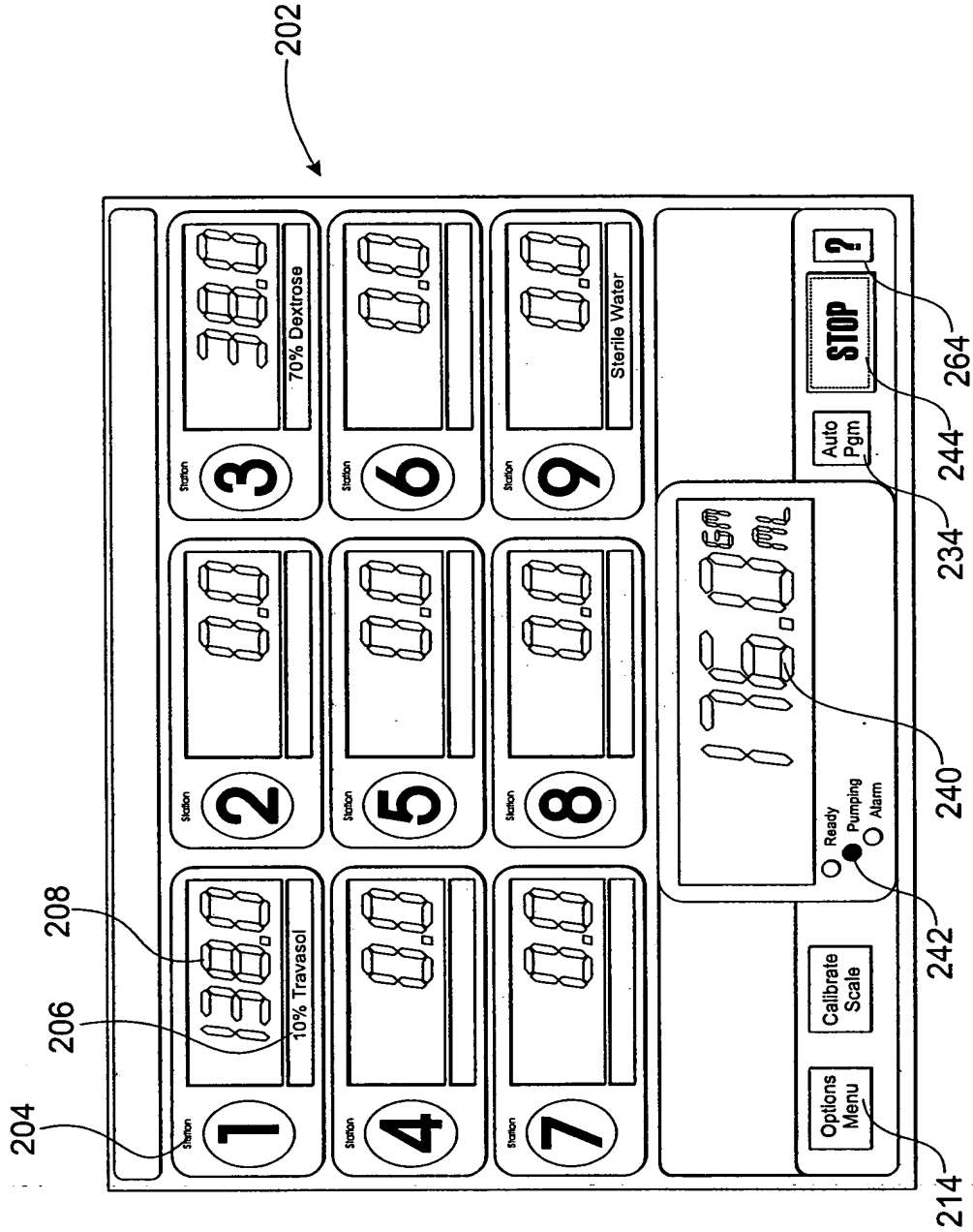


FIG. 9M

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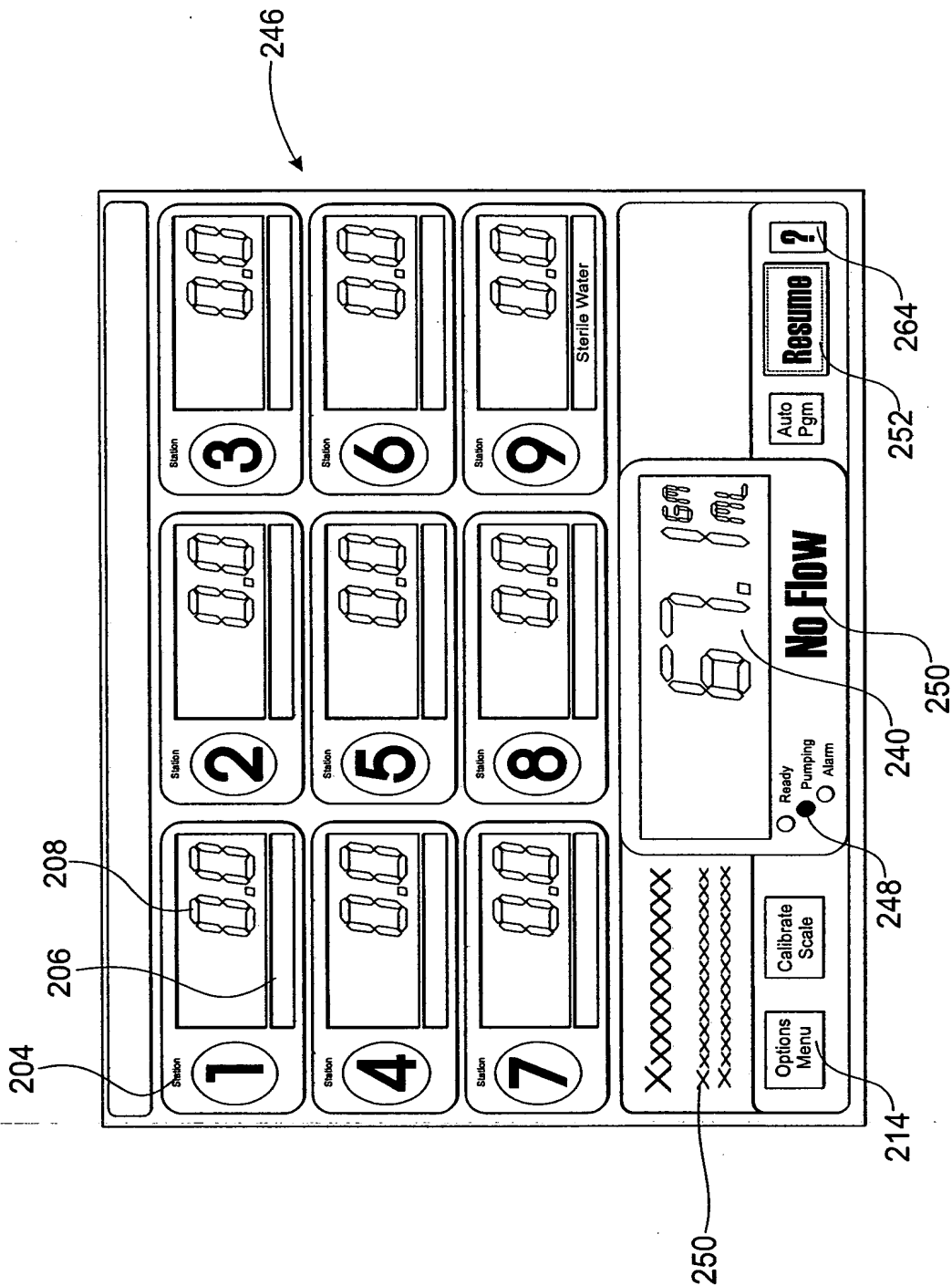


FIG. 9N

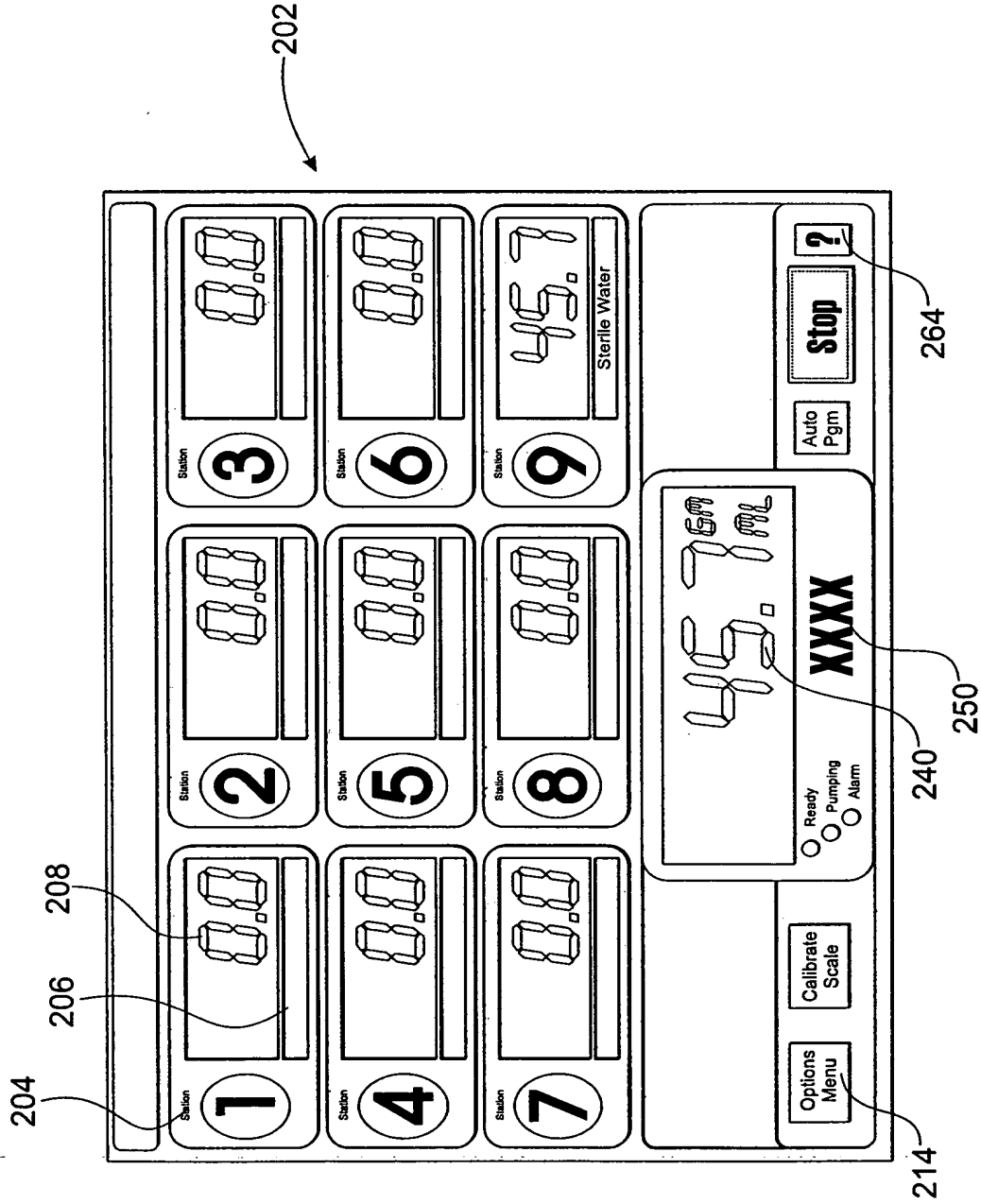


FIG. 90

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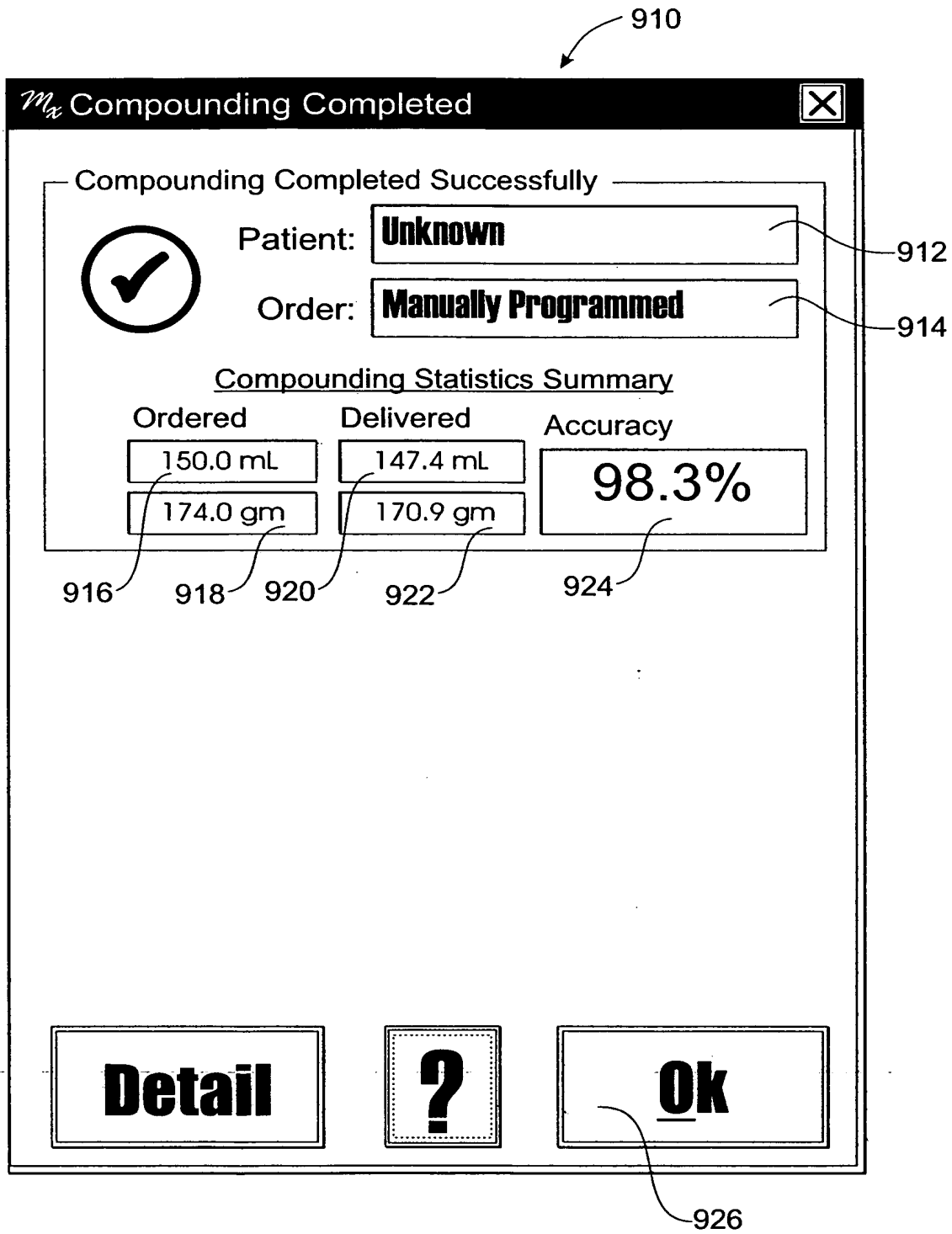


FIG. 90 (1)

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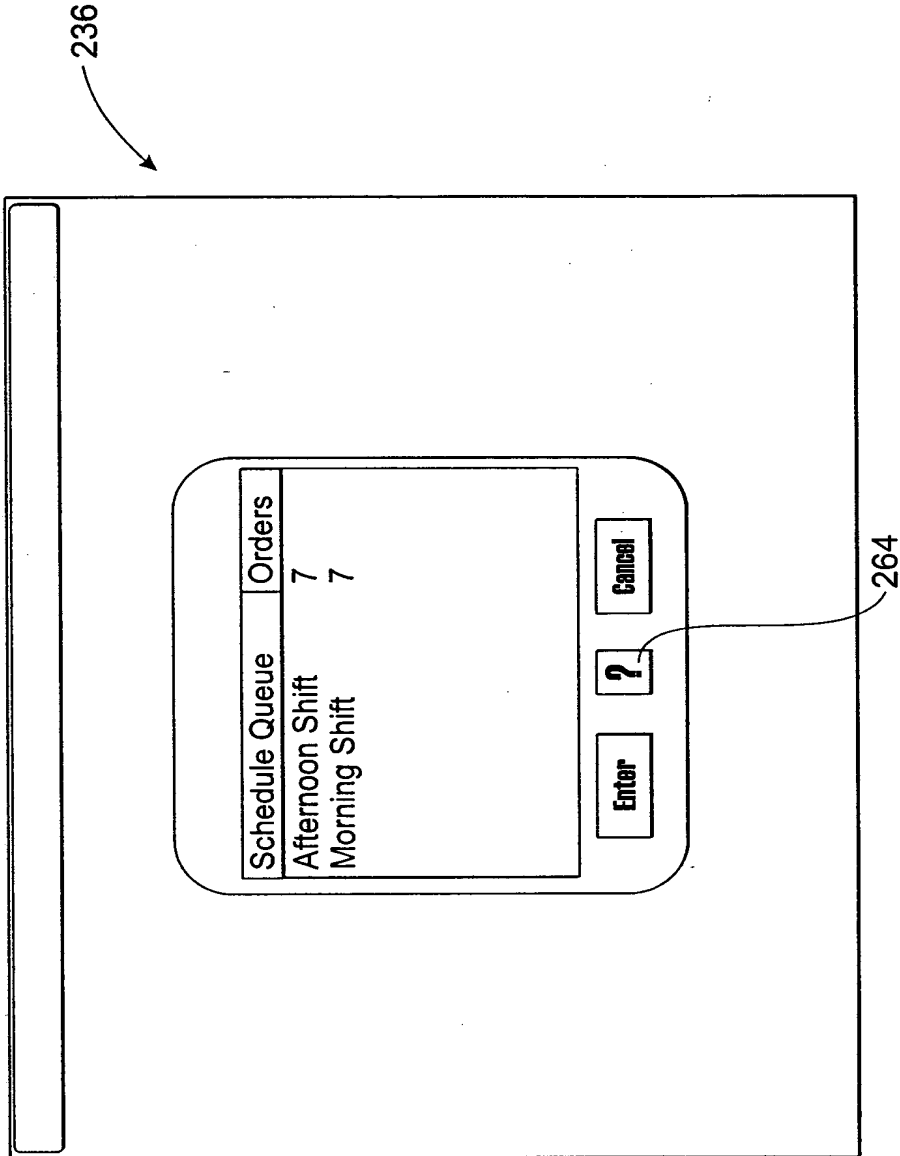


FIG. 9P

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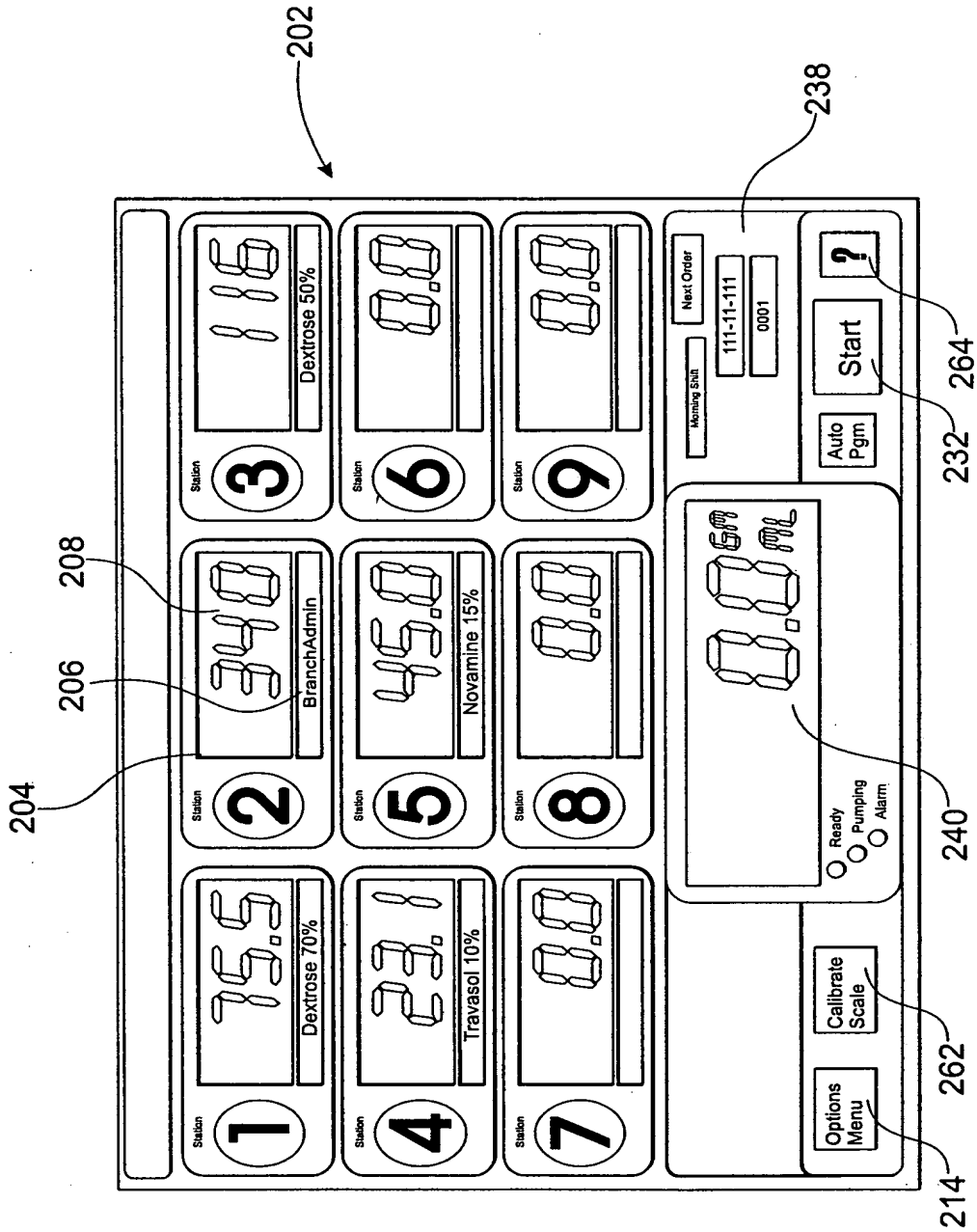


FIG. 90Q

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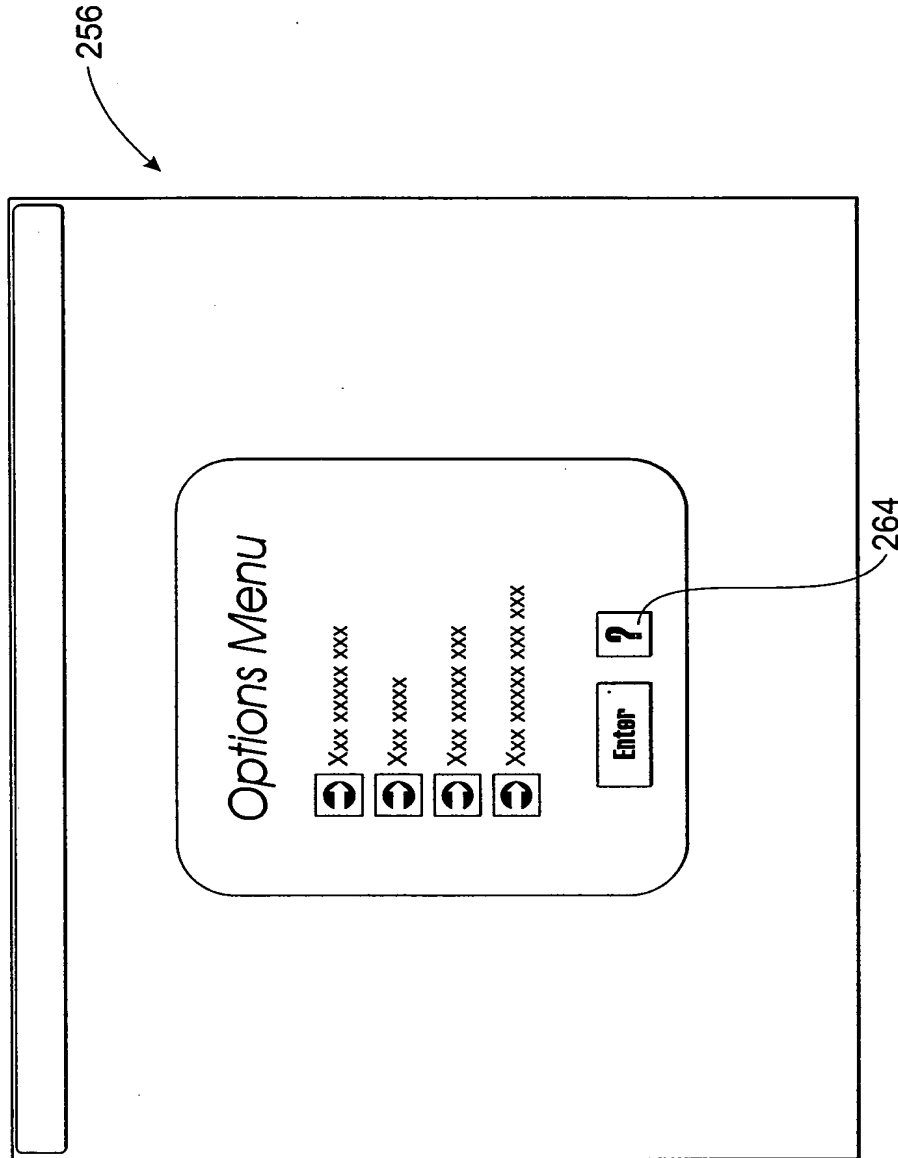


FIG. 9R

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Time	Type	Patient & Order #
12/11/2001 10:57:39 AM	Auto Pgm	123-45-6789 #12345
12/11/2001 10:53:49 AM	Manual	#002
12/11/2001 10:43:19 AM	Manual	#001

ID	Solution	SPG	Stn	Dose	Actual Delivered
#00	Sterile Water	1.00	1	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	2	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	3	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	4	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	5	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	6	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	7	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	8	9999.9 mL	9999.9 mL
#00	Sterile Water	1.00	9	9999.9 mL	9999.9 mL
TOTALS					ALL 9999.9 mL

Order ID: Manual order 6001
 Start Time: 11/12/2001 11:22:31 AM → Completed Successfully

Date

Search

?

Load This Order

Exit

264

FIG. 9S

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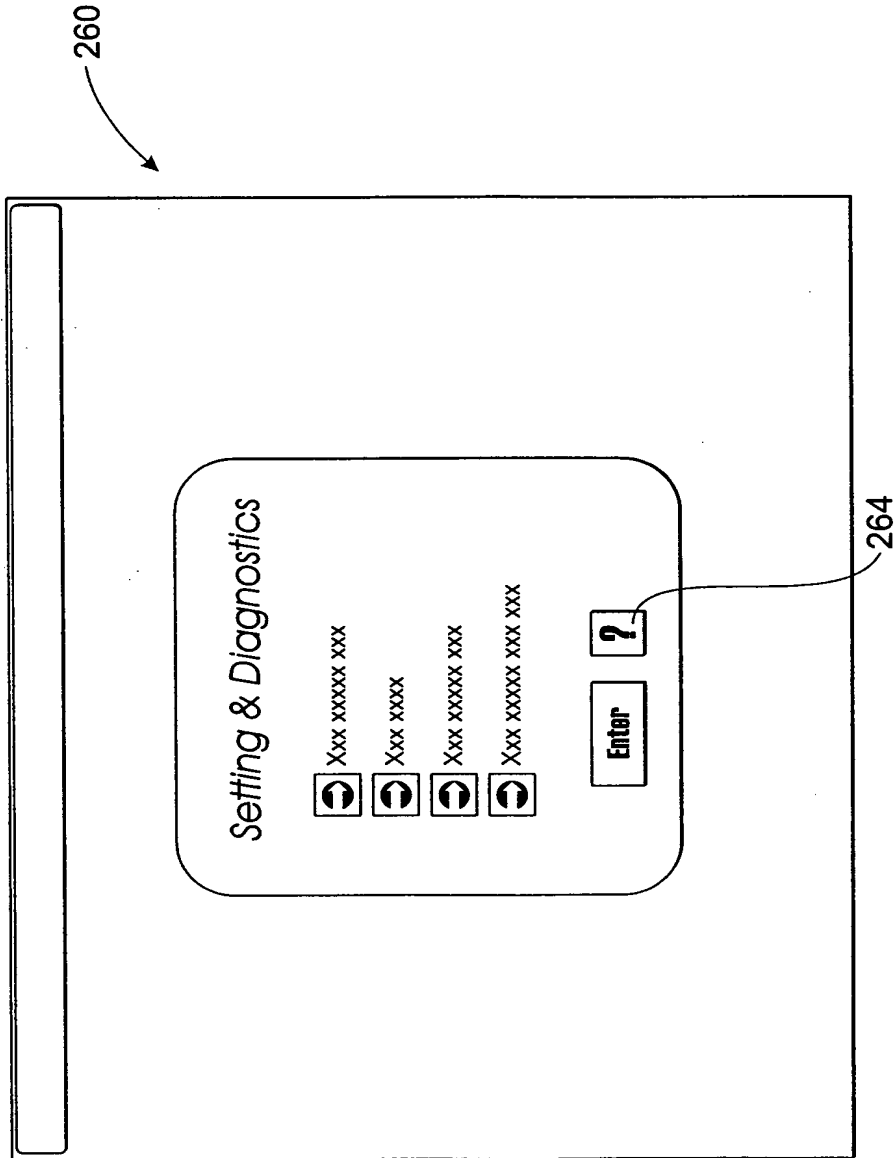


FIG. 9T

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266

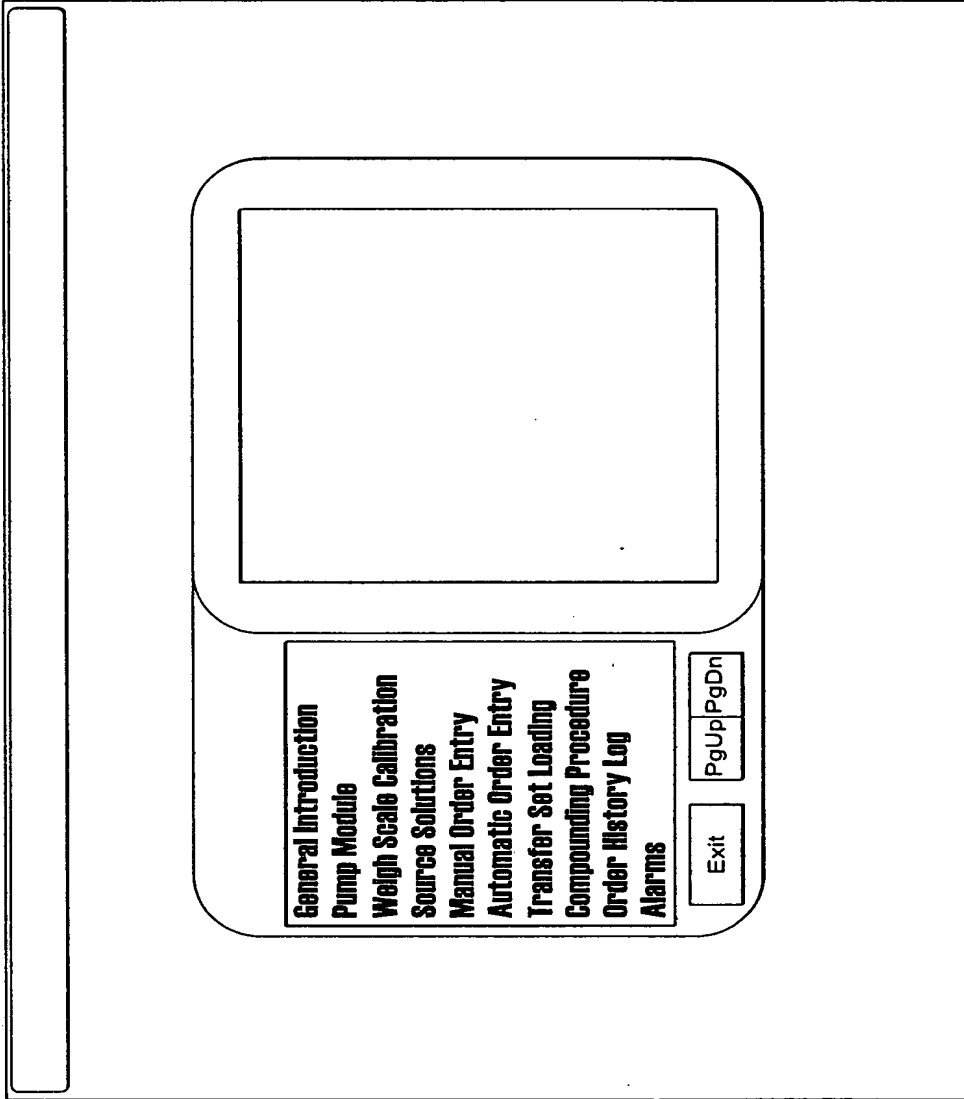


FIG. 9U

268

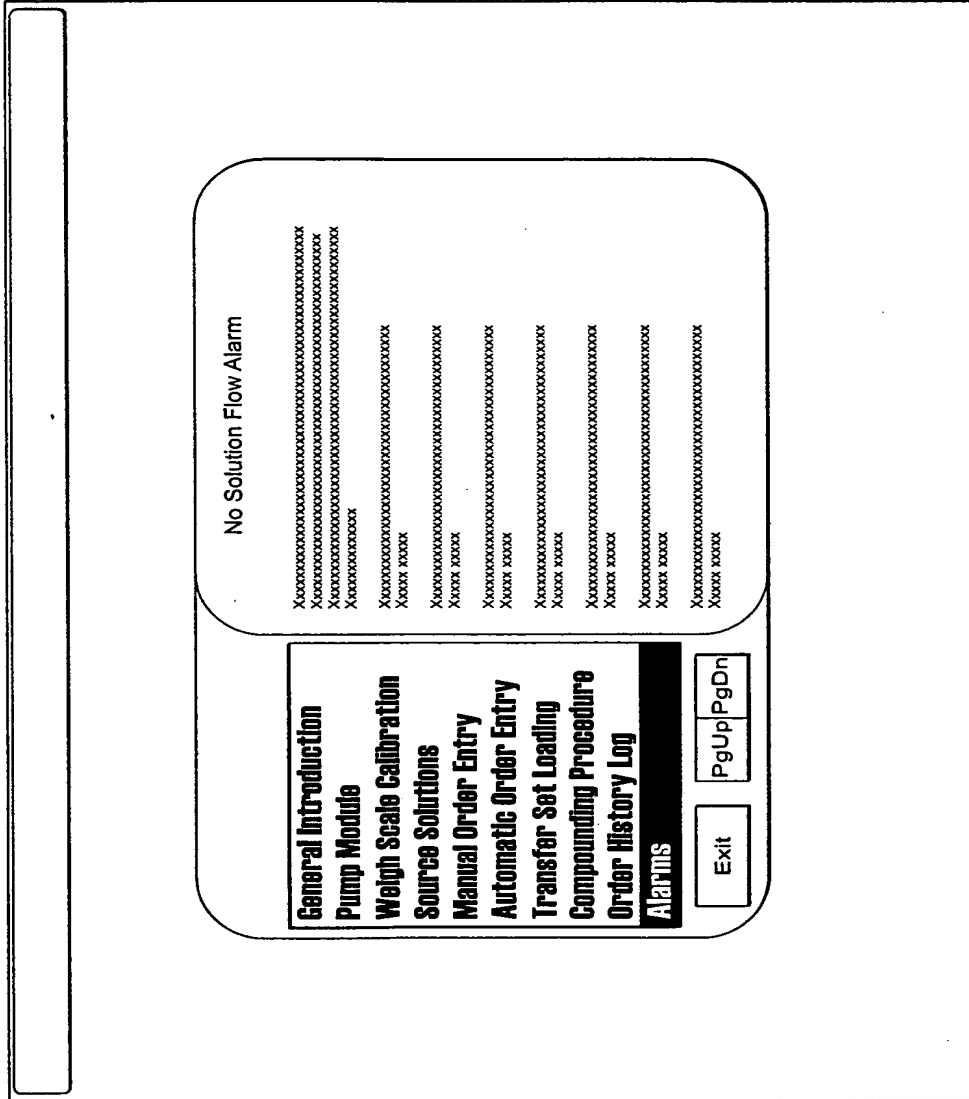


FIG. 9V

44/100

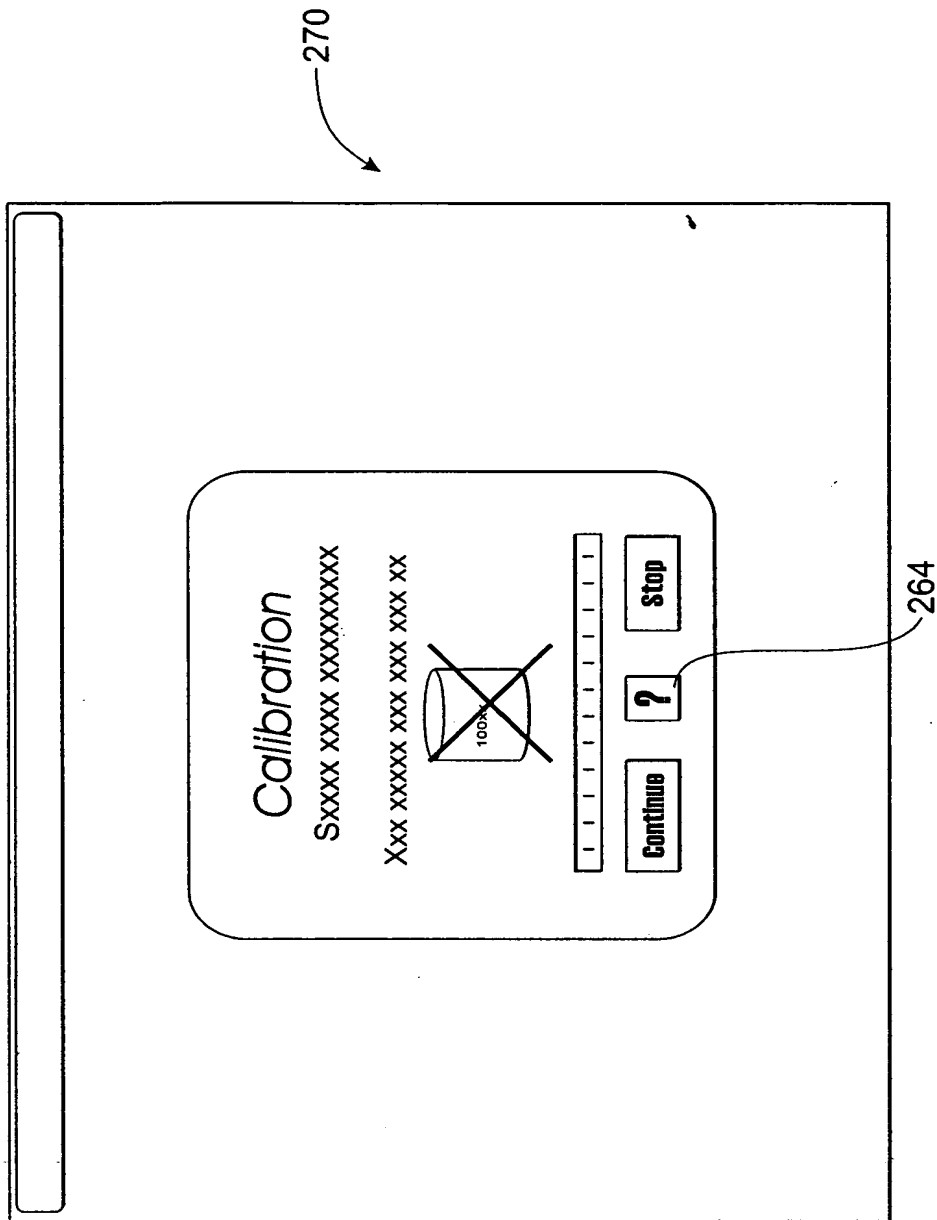


FIG. 9W

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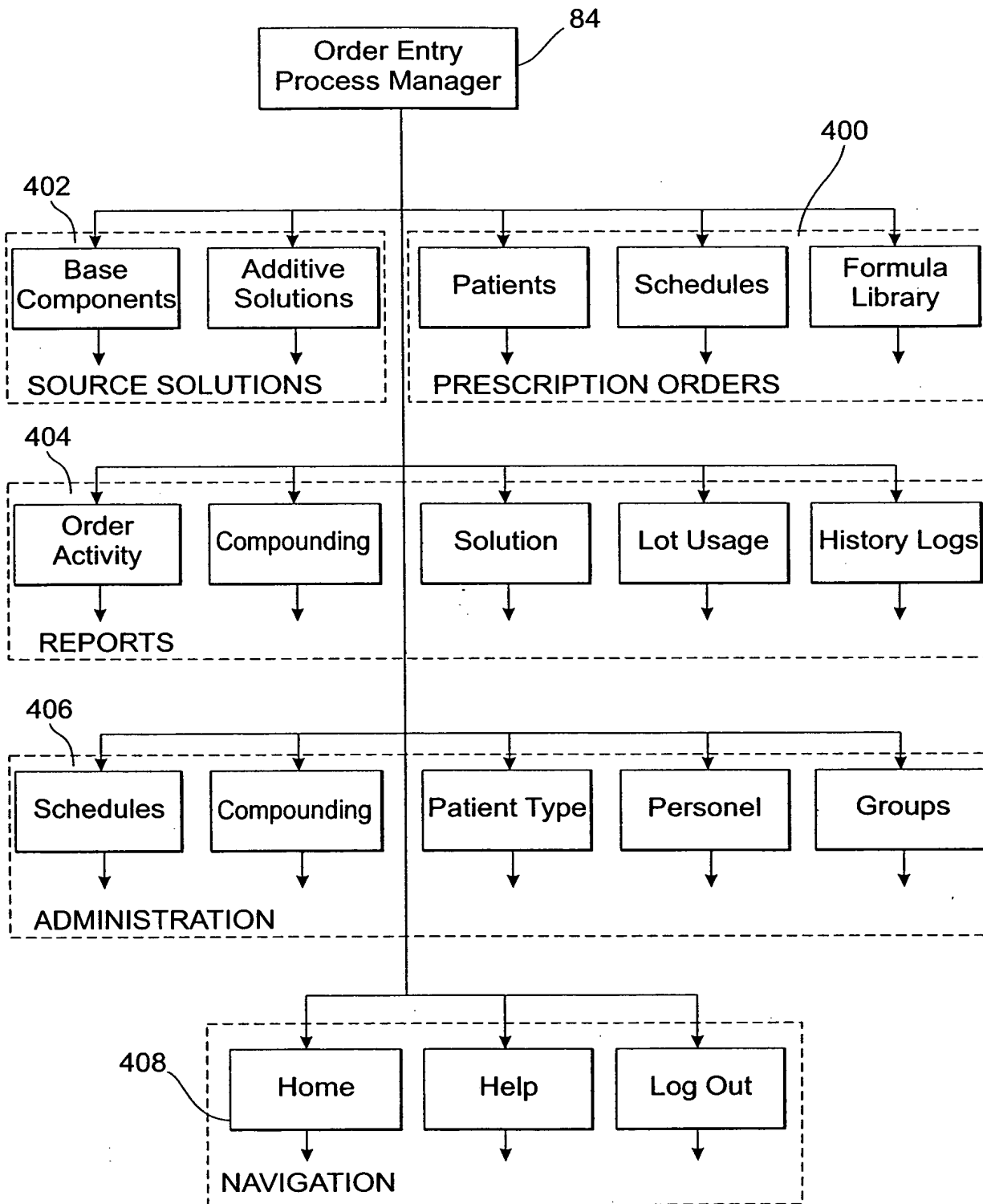
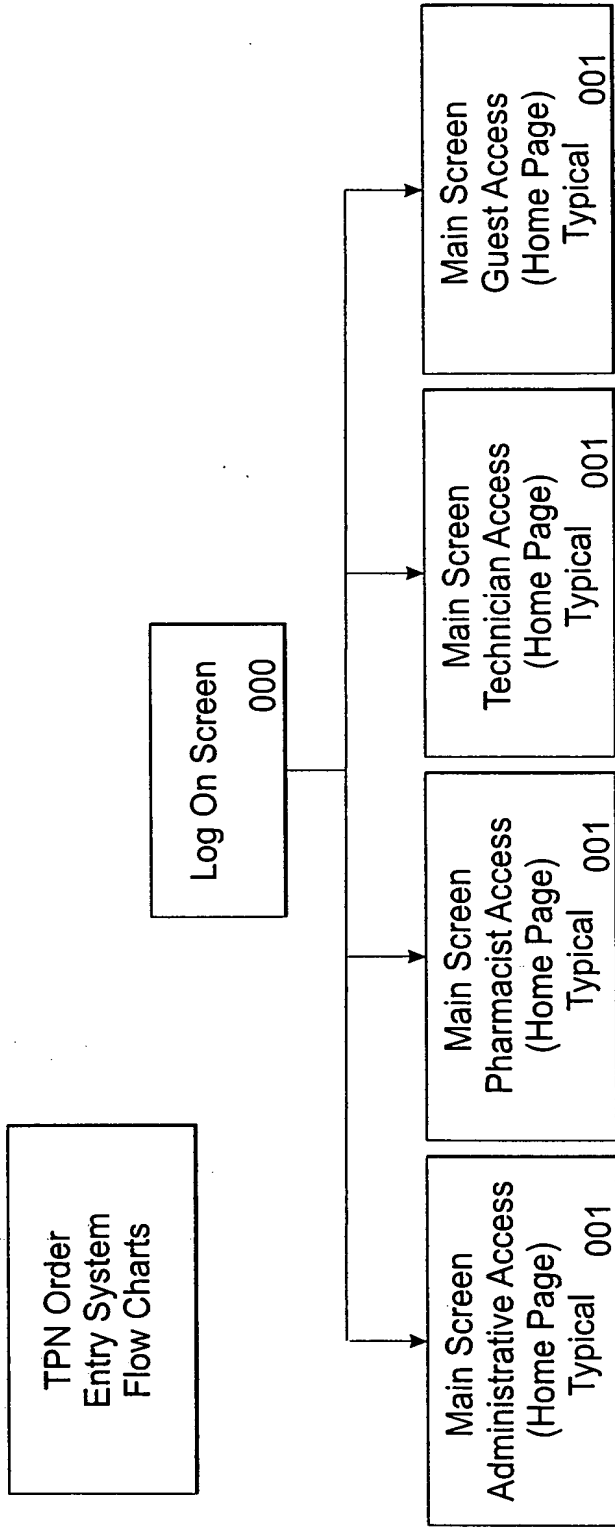


FIG. 10A(1)



Notes: Above access levels are "typical". Access to system functionality is a direct function of the individual's Granted access options.

Access titles (e.g., Administrative, Pharmacist, etc.) are not fixed and are instead examples of the type of levels that can be set up by the user.

Screen numbers are three digit code located in lower right corner of each flow chart box.

FIG. 10A(2)

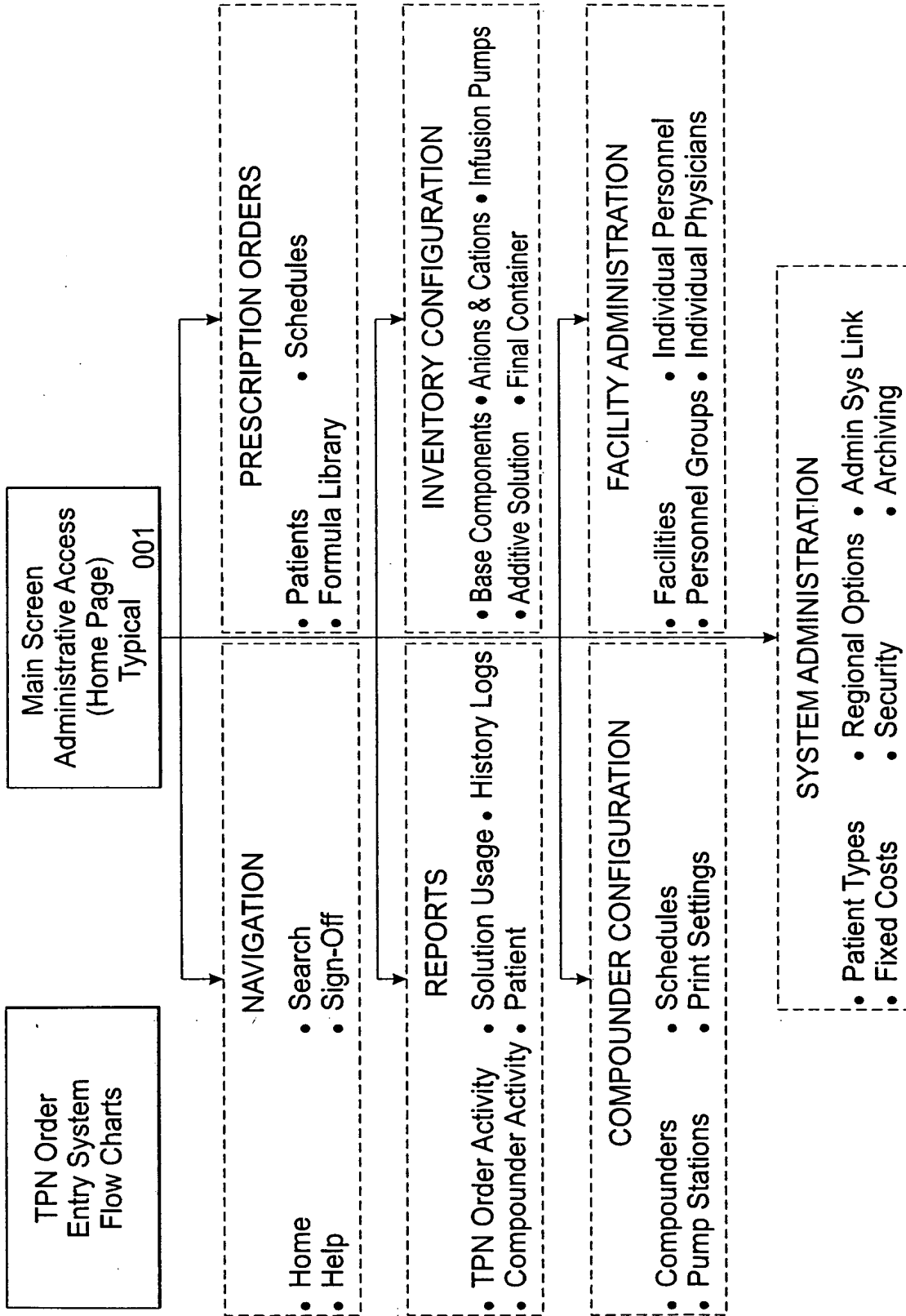


FIG. 10A(3)

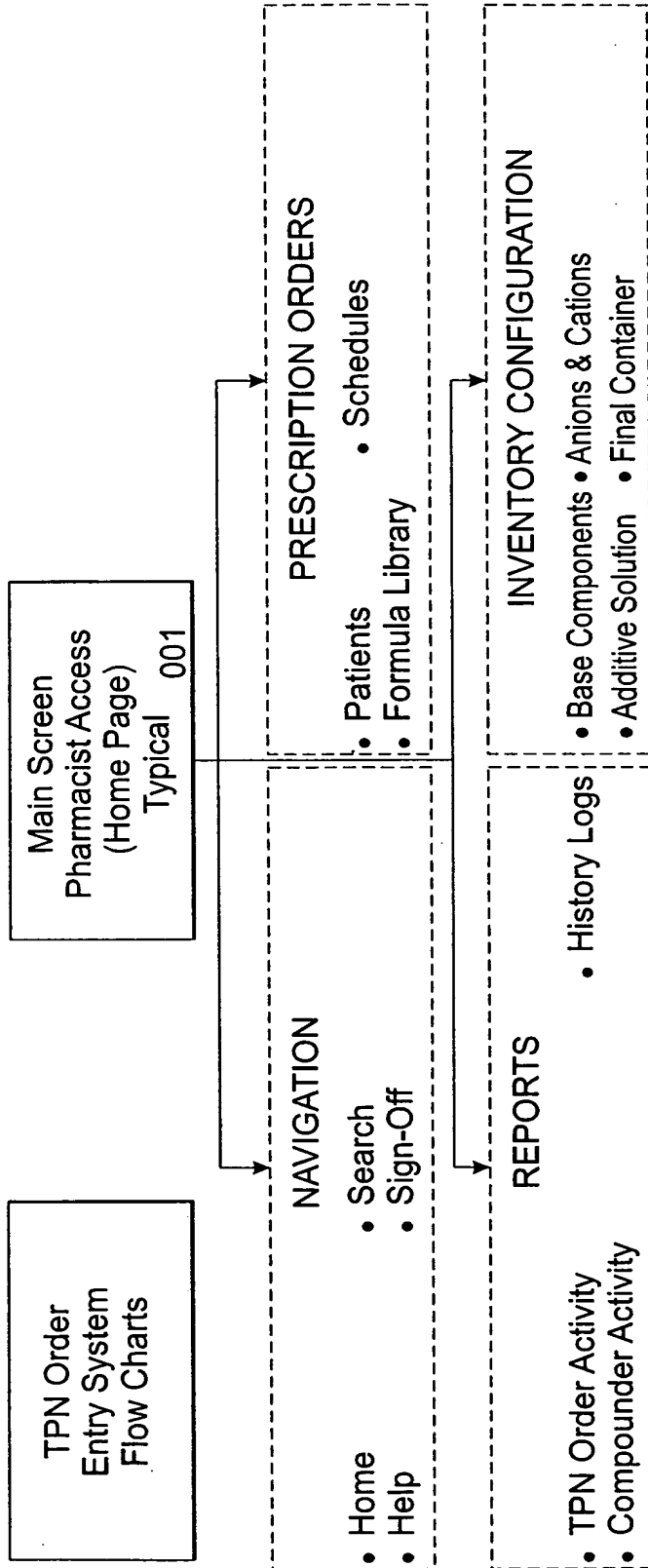


FIG. 10A(4)

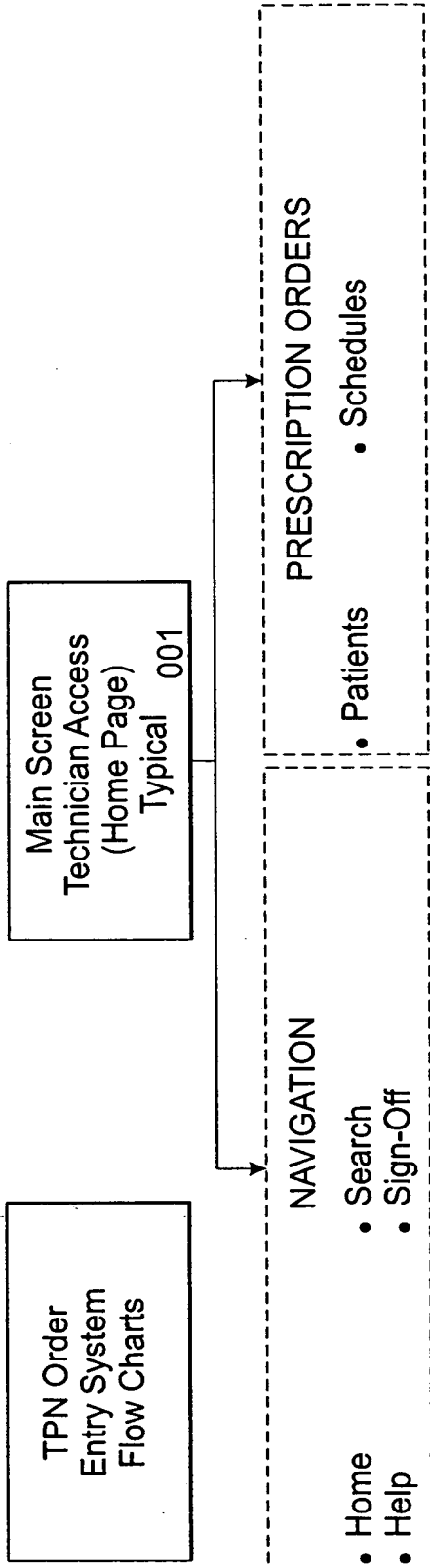


FIG. 10A(5)

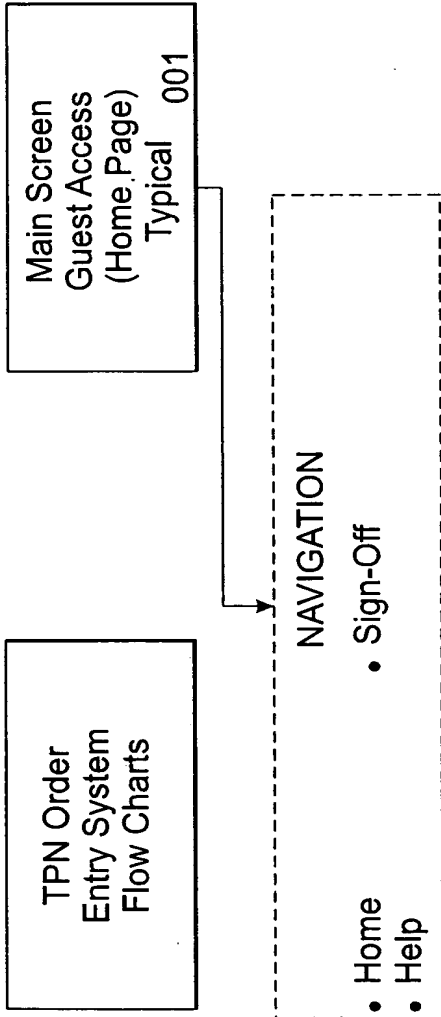


FIG. 10A(6)

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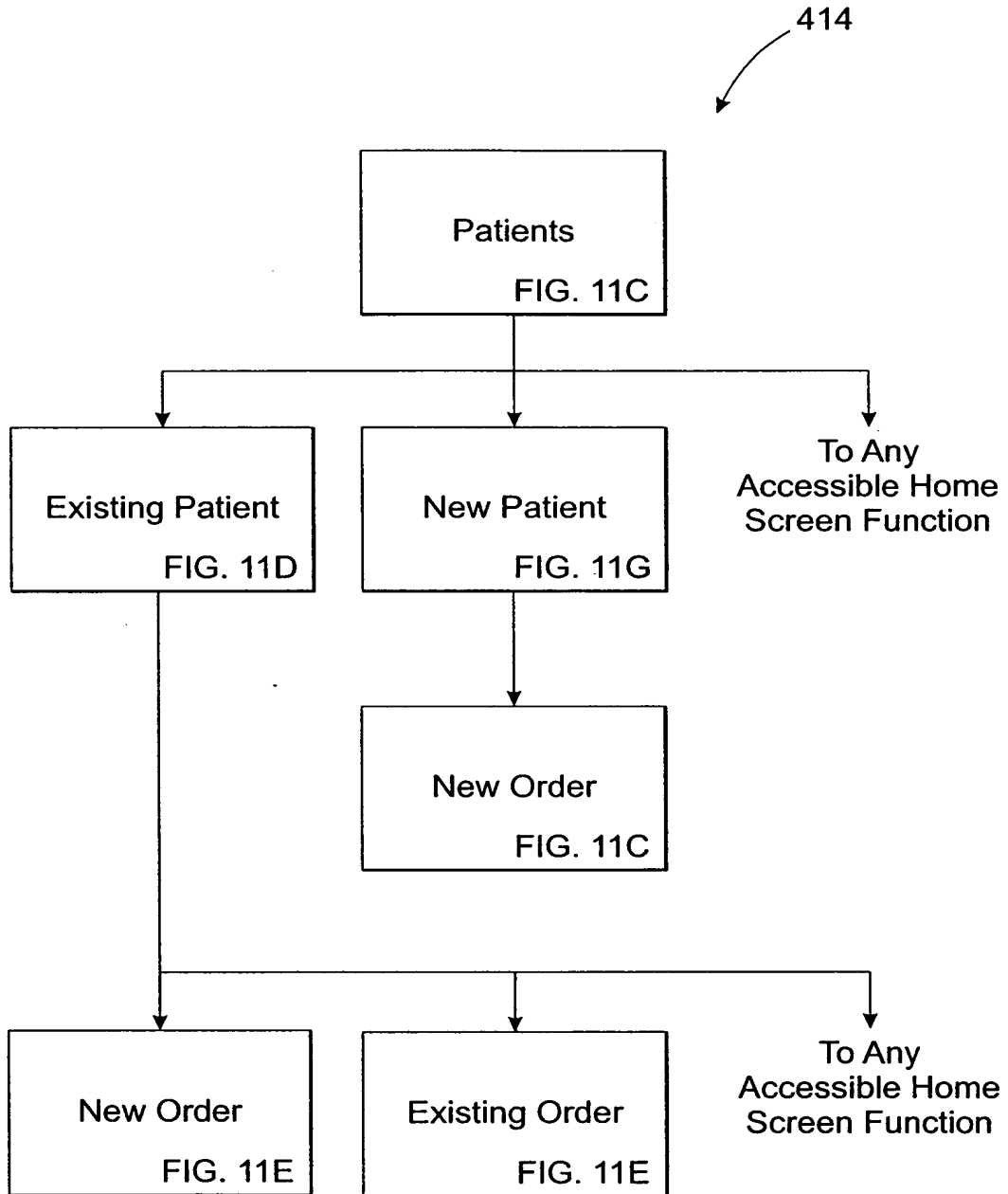


FIG. 10B

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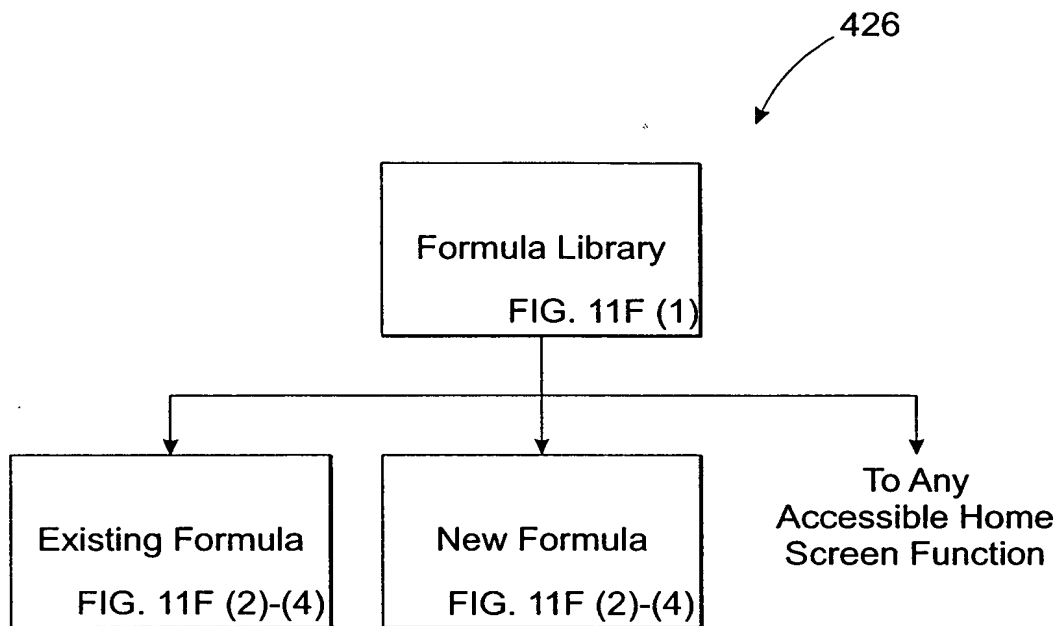


FIG. 10C

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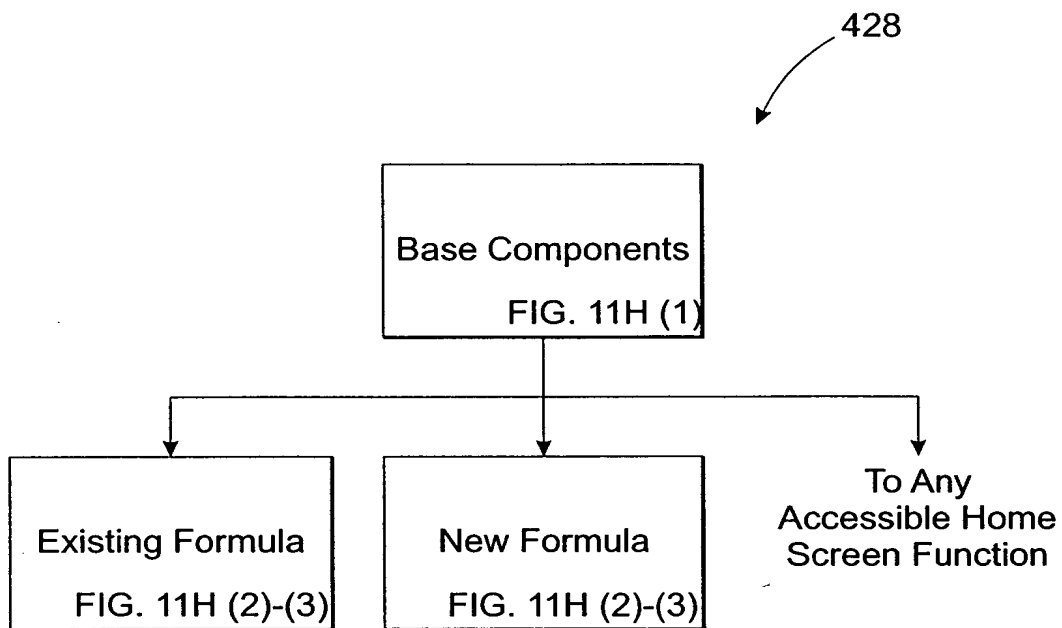


FIG. 10D

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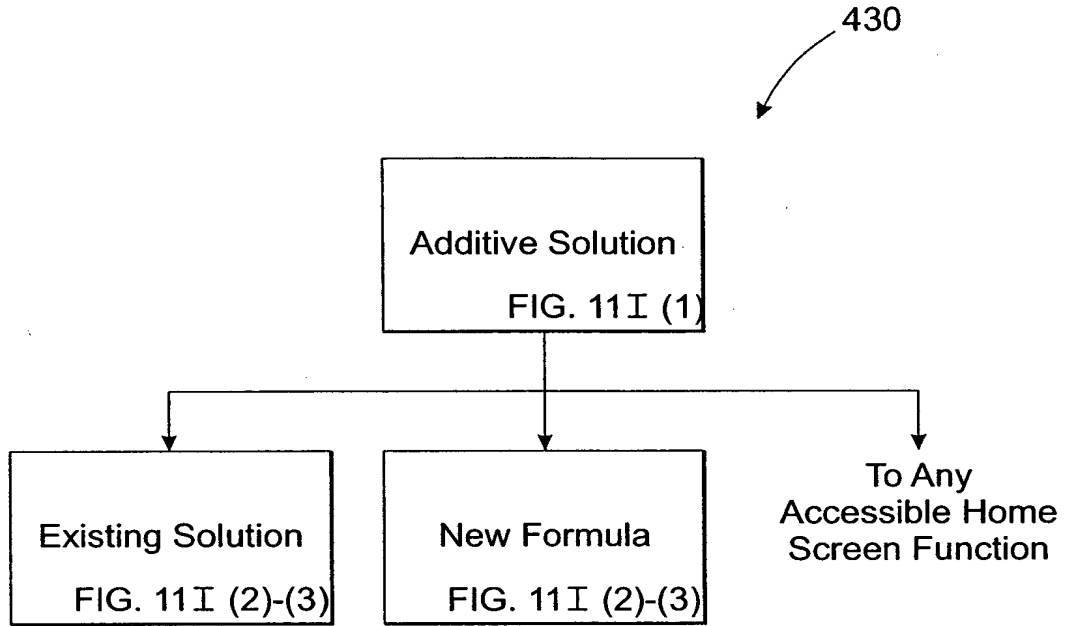
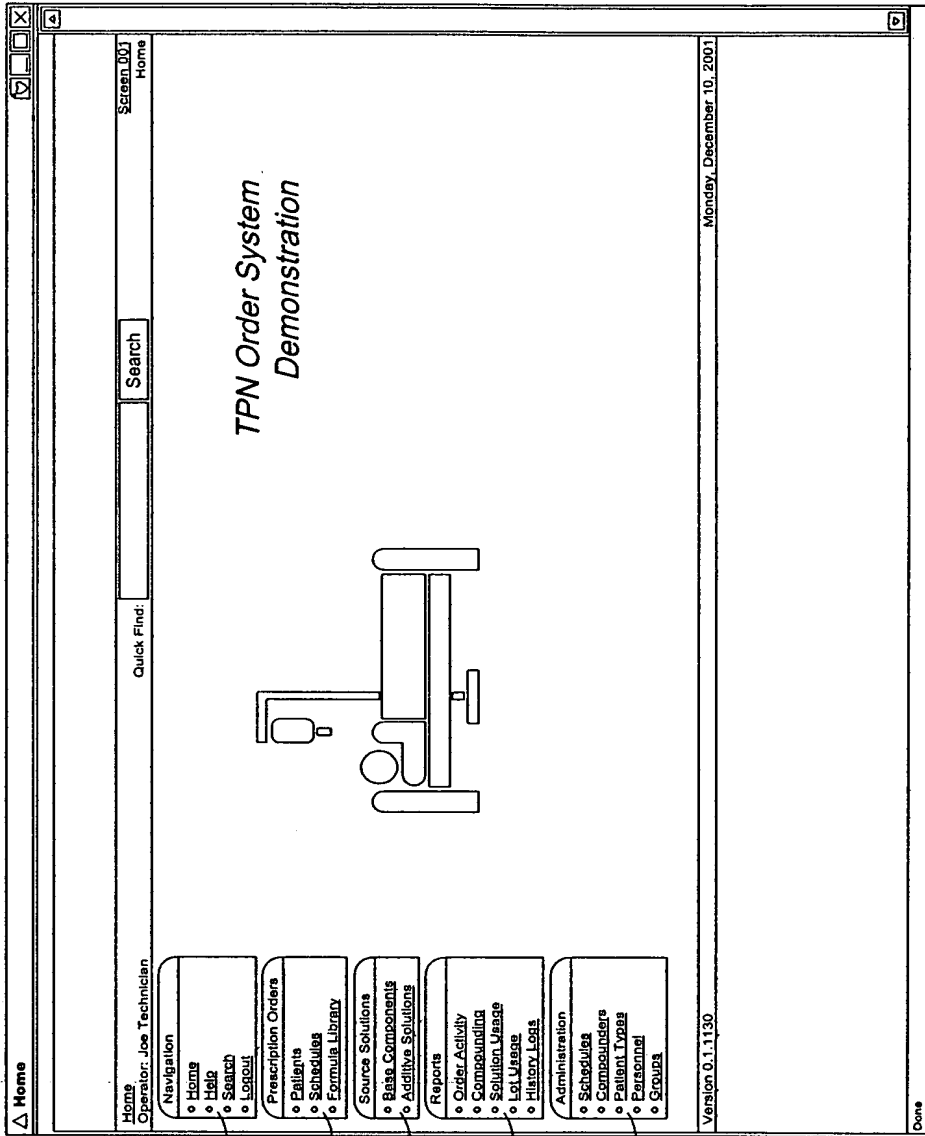


FIG. 10E

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410



408

400

402

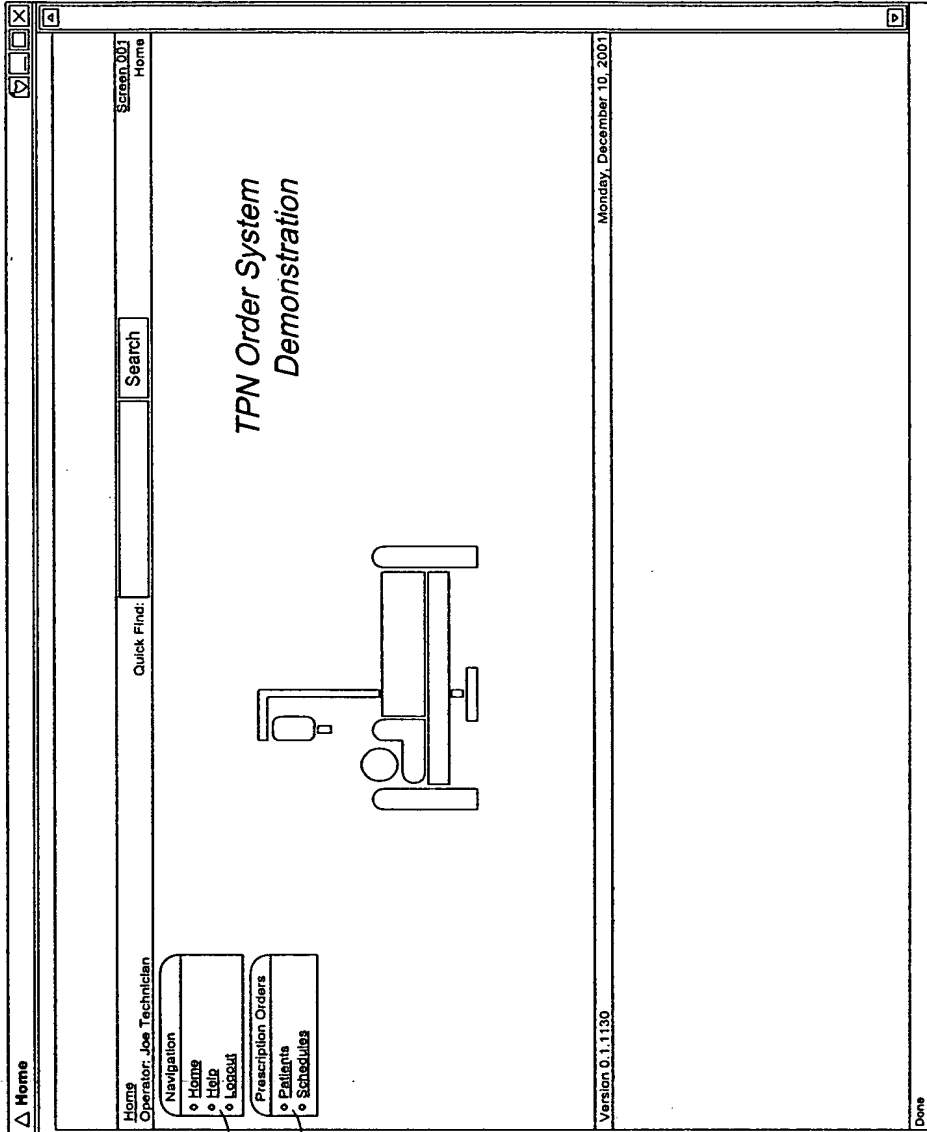
404

406

FIG. 11A

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410'



408

476

FIG. 11B

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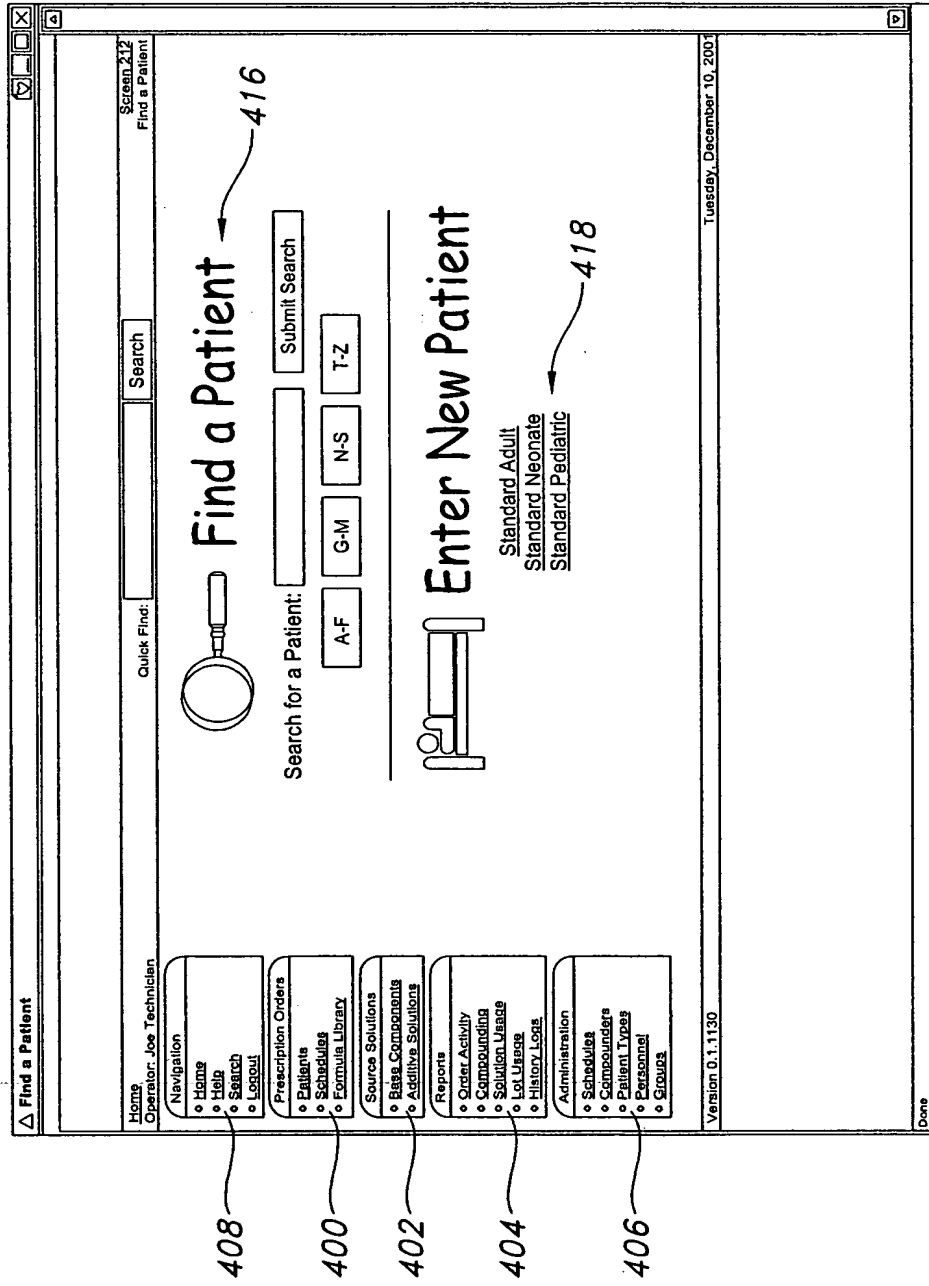


FIG. 11C

420

TPN Manager Screen 210
 Prescription Data Entry

Home Operator: Pharmacist Quick Find: Search

Navigation (408)
 • Home
 • Help
 • Search
 • Sign Out

Prescription Orders (400)
 • Patient
 • Recipes
 • Formula Library

Reports (404)
 • TPN Order Audit
 • Compounder Audit
 • Patient Log

Inventory Configuration (402)
 • Base Components
 • Additive Solutions
 • Amino Acids
 • Electrolytes

Patient Record Edit Record View History
 Patient Name: Test Patient #1 Patient ID: 111-11-1111
 Location: Room 1 Age: 22 Years Sex: M
 Diagnosis: diagnosis 1 Height: 77.0 cm
 diagnosis 2 Weight: 44.0 Kg
 Physician: Allergies: None

Nutritional Assessments for Patient New Assessment
 • J124/0003 - 1014181810001

TPN Orders on File for Patient (422)
 • Basal TPN 1000-TEST
 • Basal TPN 1000-TEST
 • Basal TPN 1000-TEST

Formula Library Order Templates Available for Adult Patient (424)
 • Basal TPN Order Form
 • Adult Enteral
 • Enteral Adult Formula
 • DIPN
 • CARDIOPLEGIC SOLUTION

Version 0.1.1130 Saturday, November 29, 2003
 Version 0.1.1130 Saturday, November 29, 2003

FIG. 11D

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TPN Order Entry
Screen 310
TPN Order Entry

Home
Operator: Joe Technician

Data Entry

TPN Order Entry

Patient Information

TPN Order Entry

Patient Name: Test Patient #1 Patient ID: 111-11-1111
 Location: Room 222, Bed 1 Age: 22 Years
 Diagnosis: Fever Sex: Male
 Physician: Dr. Smith Height: 86.0 cm
 Allergies: None Weight: 34.0 Kg

Edit Patient Record

I.V. Container Information

Prescription Order

Order Number: Container 1	Bag No: 0001	Order History: 12/03/2001 13:02:28 (rsp) Changed TPN Order
Inflation Volume: 2000 mL	Inflation Rate: 125.00 mL / Hour	Inflation Period: 9.20 Hours
<input type="checkbox"/> Minimum Possible		
Overfill Volume: 0 mL	Delivery Date: 06/26/2001	Delivery Time: 8:00 AM

Container Label Note: final notes

Worksheet Label Note: worksheet notes

Submit Changes

438

Done

FIG. 11E(1)

TPN Order Entry
436

Base Components

Instructions	Base Component	Order Dose	mL	Edit
	Dextrose 70%	222.00 mL	100Kg	75.5 change
	BranchAmin	93.10 mL	Liter	186.2 change
	Dextrose 50%	5.00%		200.0 change
	Travasol 10%	106.90 mL	Liter	213.8 change
	Intralipid 10% PF 250 mL	250.0 mL Pre-Filled Container		250.0 change

Branched Chain Calculator

Add Solution to Order

Solution: Order Dose: mL Per:

Pre-Fill Container: Piggyback Final Container

440

Click to Submit Base Component Changes or Additions

Additives

Instructions	Additive Solution	Order Dose	mL	Edit
	Potassium Chloride	20.00 mL	Liter	40.0 change
	Sodium Acetate	30.00 mL	100Kg	10.2 change
	Zinc	0.50 mL	100Kg	0.2 change
	Heparin	1000.00 unit	Kg-l	34.0 change
	Aminophylline	1.00 mL	Lb-l	30.8 change
	Sodium Chloride	15.00 mEq	500ml	60.0 change

442

Done

FIG. 11E(2)

436

TPN Order Entry
Additives

Instructions	Additive Solution	Order Dose	mL	Edit
	Potassium Chloride	20.00 mL	/Liter	40.0 change
	Sodium Acetate	30.00 mL	/100Kg	10.2 change
	Zinc	0.50 mL	/100Kg	0.2 change
	Heparin	1000.00 unit	/Kg-I	34.0 change
	Aminophylline	1.00 mL	/Lb-I	30.8 change
	Sodium Chloride	15.00 mEq	/500ml	60.0 change

Add Solution To Order

Solution Order Dose Per

Click to Submit Additive Changes or Additions

Nutritional Summary

<p><u>Nutritional Content Summary</u></p> <p>4.18 gm Nitrogen 118.195 Kcal Protein 522.445 Kcal Dextrose 275.000 Kcal Lipid 915.640 Kcal Total</p> <p>Total Volume 2000.0 mL</p>	<p><u>Electrolyte Content Summary</u></p> <p>0 mEq NA+ 0 mEq K+ 0 mEq CA++ 0 mEq Mg++ 0 mEq CL- 0 mMol PO4-- 0 mEq AC-</p> <p>Osmolarity 14117.4</p>
--	--

Order Status
Done

442

444

FIG. 11E(3)

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TPN Order Entry
Monday, December 10, 2001

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2/5.000 Kcal Lipid 915.640 Kcal Total Total Volume 2000.0 mL	U ms-q Mg++ 0 mEq CL- 0 mEq PO4-- 0 mEq AC- Osmolality 14117.4
--	--

478

Order Status			
454 Open for Order Entry	452 Submitted for Review & Authorization.	422 Authorized Review Completed Ready to Print Labels.	480 Printed Labels Printed, Ready for Compounding.
458 Compounded Order Completed Ready for Delivery to Patient.			

458

I have reviewed this order for accuracy and compliance with the policies at this facility.

Schedule: 460

Authorizing Pharmacist: ald 456
 Monday, December 10, 2001

462

464

Authorize this Order for Compounding.

Delete this TPN Order

Version 0.1.1130
Done

FIG. 11E(4)

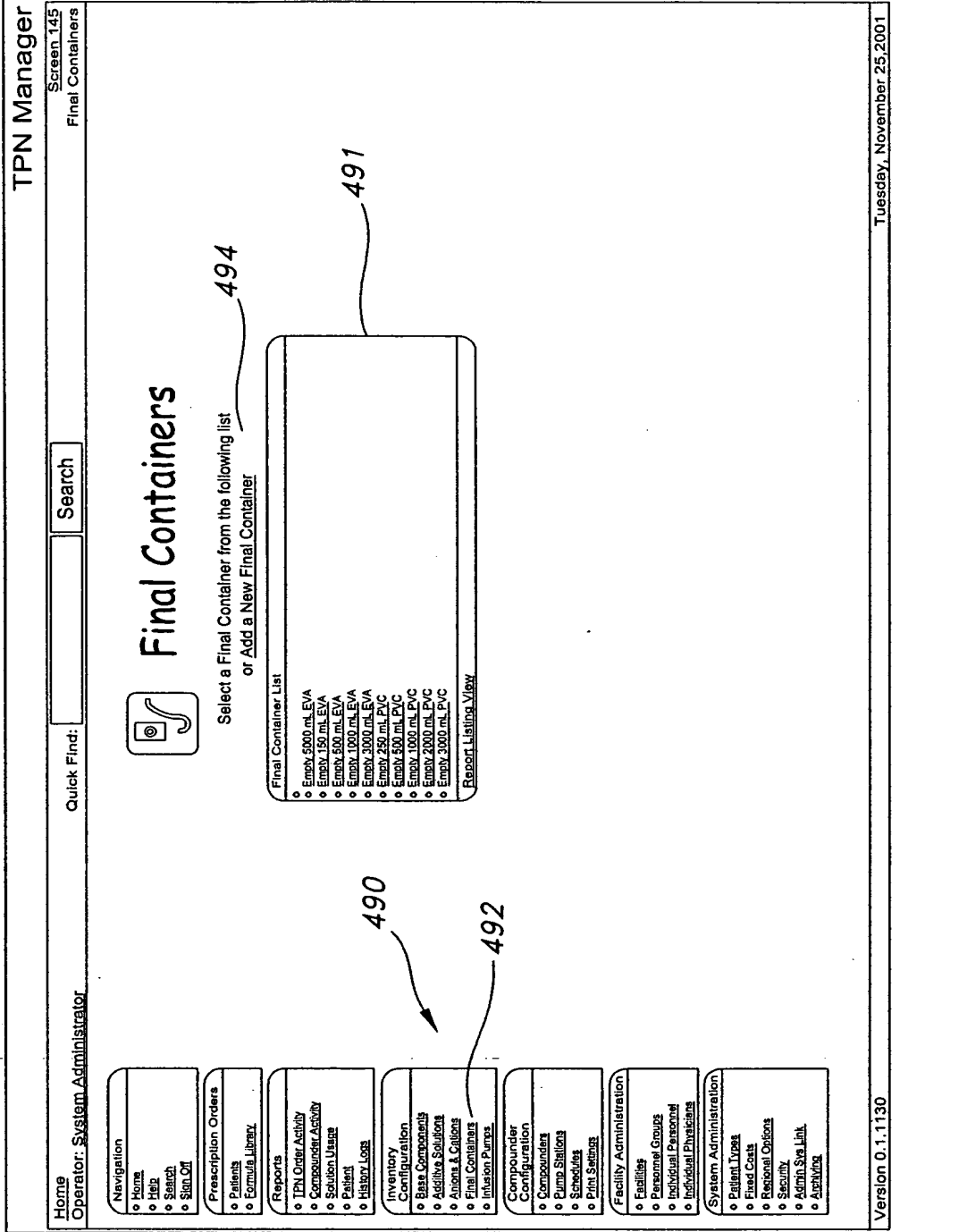


FIG. 11E(5)


Home Operator: System Administrator	Data Entry	TPN Manager Screen 145 Final Container Inventory	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">  </div> <div style="width: 75%; text-align: center;"> <h3>Final Container Inventory</h3> <p>History : Created 11/24/2003</p> <p>Record Status : <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled</p> <p>Container Description : <input type="text" value="Empty 3000 mL EVA"/></p> <p>Rated Size : <input type="text" value="3000"/> mL</p> <p>Maximum Capacity : <input type="text" value="3300"/> mL</p> <p>Nominal Empty Weight : <input type="text" value="43"/> gm</p> <p>Max Under Nominal Weight : <input type="text" value="10"/> gm</p> <p>Max Over Nominal Weight : <input type="text" value="10"/> gm</p> <p>Unit Cost : \$ <input type="text" value="0.00"/></p> </div> </div> <div style="margin-top: 10px; display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px 5px;">Update</div> <div style="border: 1px solid black; padding: 2px 5px;">Delete</div> <div style="border: 1px solid black; padding: 2px 5px;">Cancel</div> </div> <p style="font-size: small; margin-top: 5px;"> Save changes to this Record. Delete this Record. Exit without saving changes. </p>
		Tuesday, November 25, 2001	
		Tuesday, November 25, 2001	
		Version 0.1.1130	
		Version 0.1.1130	

FIG. 11E(6)

65/100

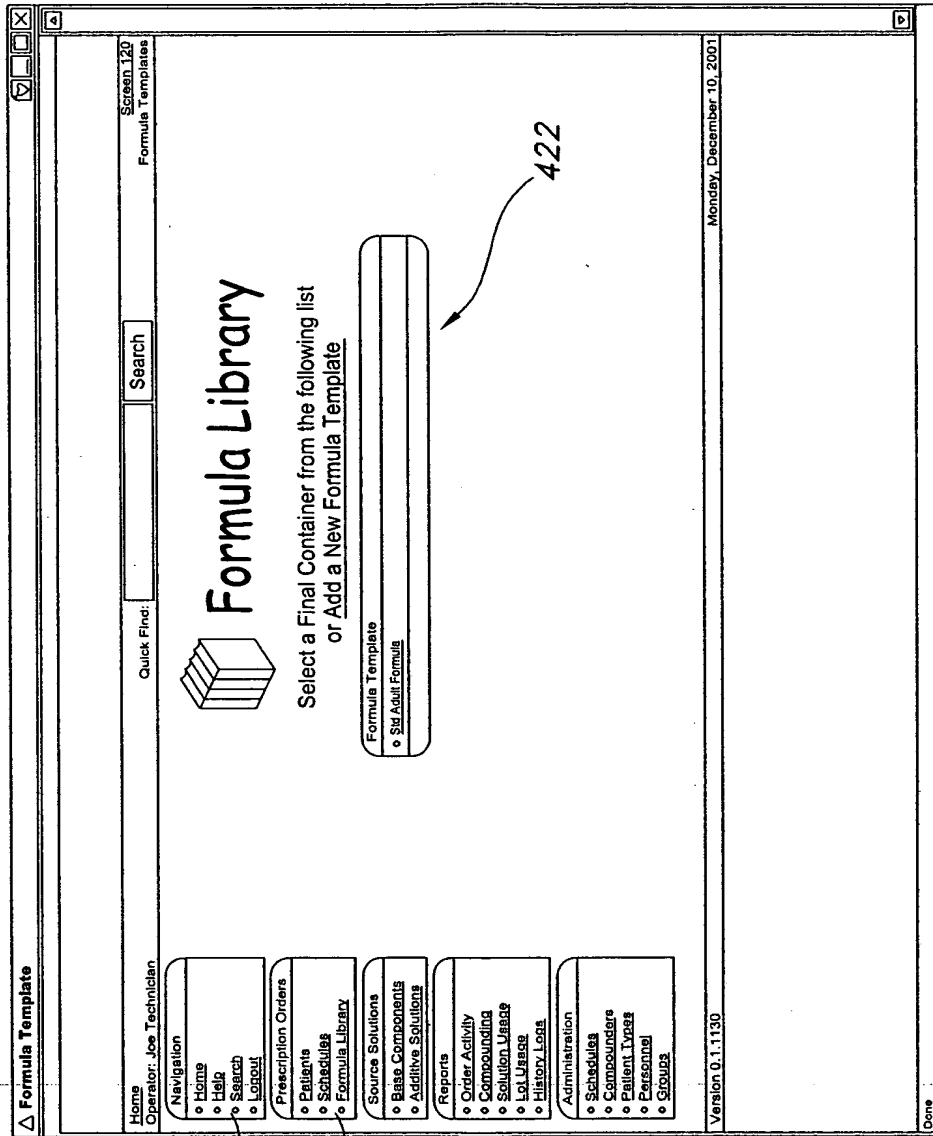


FIG. 11F(1)

434

TPN Order Template

Home Operator: Joe Technician Date Entry

Screen 310 TPN Order Template

TPN Order Template

Order Formula Template

Formula Template Name: Sid Adult Formula

Formula description and/or special instructions for formula date entry:
...and here are the instructions...

Order Number:	Order History: (unknown)
Infusion Volume: 1000 mL or <input checked="" type="checkbox"/> Minimum Possible	Infusion Rate: 125.00 mL/Hour Intrusion Period: 9.20 Hours
Overfill Volume: 0 mL	
Container Label Notes: final notes	
Worksheet Label Notes: worksheet notes	

Submit Changes

Done

FIG. 11F(2)

434

TPN Order Template

Base Component	Order Dose	Data Entry Instructions	Edit
Branch Admin	25.00mL /500mL	Instructions	change
Dextrose 70% PF 500mL	0.00 mL		change

Add Solution To Template

Branched Chain Calculator

Solution	Order Dose	Per	Submit
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Submit"/>
Data Entry Instructions (optional)			
<input type="text"/>			

Additive Solution	Order Dose	Data Entry Instructions	Edit
Sodium Chloride	15.00 mEq /500mL	Instructions	change

Add Solution To Template

Solution	Order Dose	Per	Submit
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Submit"/>
Data Entry Instructions (optional)			
<input type="text"/>			

Nutritional Content Summary 0.12 gm Nitrogen	Electrolyte Content Summary 0 mEq NA+
--	---

Done

FIG. 11F(3)

434

TPN Order Template
Tuesday, December 11, 2001

Additive Solution	Order Dose	Data Entry Instructions	Edit
Sodium Chloride	15.00 mEq /500mL	Instructions	change

Add Solution To Template

Solution

Data Entry Instructions (optional)

Order Dose

Per

Nutritional Content Summary

0.12 gm Nitrogen

4.461 Kcal Protein

1195.000 Kcal Dextrose

0.000 Kcal Lipid

1199.461 Kcal Total

Total Volume 543.5 mL

Electrolyte Content Summary

0 mEq NA+

0 mEq K+

0 mEq CA++

0 mEq Mg++

0 mEq CL-

0 mEq PO4--

0 mEq AC-

Osmolarity 120.0

Version 0.1.1.130
Done

FIG. 11F(4)

448

The screenshot shows a software window titled "Patient Information" with a standard Windows-style title bar. The window is divided into several sections:

- Header:** On the left, it says "Home Operator: Joe Technician". On the right, it says "Screen 211 Patient Information".
- Navigation:** A "Data Entry" button is located in the top right corner of the window.
- Main Content:**
 - History:** A "New Record" button is located at the top left of the main area.
 - Form Fields:**
 - Patient ID:** A text input field.
 - Name:** A text input field.
 - Patient Type:** Radio buttons for "Adult", "Pediatric", and "Neonate".
 - Sex:** Radio buttons for "Male" and "Female".
 - Age:** A text input field with radio buttons for "Years", "Months", and "Days".
 - Height:** A text input field with radio buttons for "Inches" and "cm".
 - Weight:** A text input field with radio buttons for "Lbs" and "Kg".
 - Location:** A text input field.
 - Physician:** A text input field.
 - Diagnosis:** A text input field.
 - Allergies:** A text input field.
 - Notes:** A text input field.
 - Authorized Personnel:** A section with four checkboxes:
 - Administrative Staff
 - Pharmacy Staff
 - Pharmacy Technician
 - Superuser
- Footer:** A "Done" button is located at the bottom right of the window.

FIG. 11G(1)

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448

△ Patient Information

Age: Years Months Days

Height: 0.0 Inches cm

Weight: 0.0 Lbs Kg

Location:

Physician:

Diagnosis:

Allergies:

Notes:

Authorized Personnel:

- Administrative Staff
- Pharmacy Staff
- Pharmacy Technician
- Superuser

Photo: Photo Not Available Browse

Save changes to this Patient record.
 Exit without saving changes.

Version 0.1.1.130 Monday, December 10, 2001 Done

450

FIG. 11G(2)

71/100

482

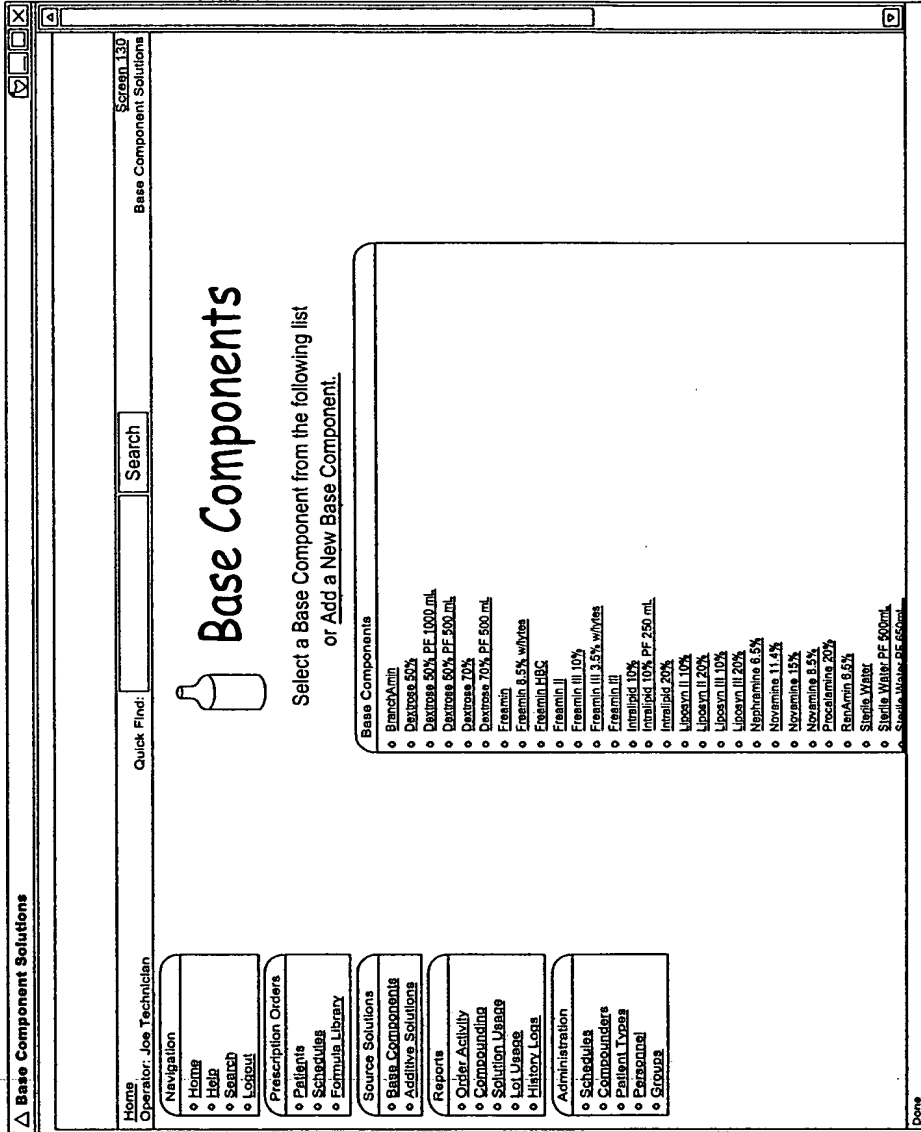


FIG. 11H(1)

484

The screenshot shows a software window titled "Base Component Solutions" with a sub-window "Base Component Solution Inventory". The interface includes a header with "Screen 129" and "Base Component Solutions". Below the header, there is a "Data Entry" section. The main content area displays the following information:

- History:** Created 09/26/2001
- Record Status:** Enabled Disabled
- Special Designation:** Quilesc
- Solution Name:** Novamine 15%
- Print on Label As:** Novamine
- Solution Family:** Amino
- Concentration:** 15,000
- Specific Gravity:** 1.05
- Cost Per 100 mL:** \$ 0.00
- Special Container:** Pre-Filled Amt: 0 mL Capacity: 0 mL
- Special Designation:** Branched Chain Amino Acid
- Pump Station:** 1st Choice: Station 9 (Violet) 2nd Choice: Station 5 (Grey) 3rd Choice: Station 3 (Green)
- Notes:**
- NDC Numbers:** 0338-0494-03

At the bottom of the window, there is a "Done" button and a "Electronic Control" label.

FIG. 11H(2)

484

Base Component Solutions

Electrolyte Content:

Na ⁺	0.00	mmol/mL
K ⁺	0.00	mmol/mL
Ca ⁺⁺	0.00	mmol/mL
Mg ⁺⁺	0.00	mmol/mL
PO ₄ ⁻	0.00	mmol/mL
CL ⁻	0.00	mmol/mL
AC ⁻	151.00	mmol/mL

Electrolyte Content:

Mass Concentration	151.00	g/100 mL
Nitrogen Content	2	g/100 mL
Protein Calories	615	Kcal/L
Dextrose Calories	0	Kcal/L
Fat Calories	0	Kcal/L
Total BCAA	2749	mg/100 mL
Total Non-BCAA	12251	mg/100 mL

Notes:

Update Save changes to this Base Component.
 Delete Delete this Base Component.
 Cancel Exit without saving changes.

Version 0.1.1130 Monday, December 10, 2001 Done

FIG. 11H(3)

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486

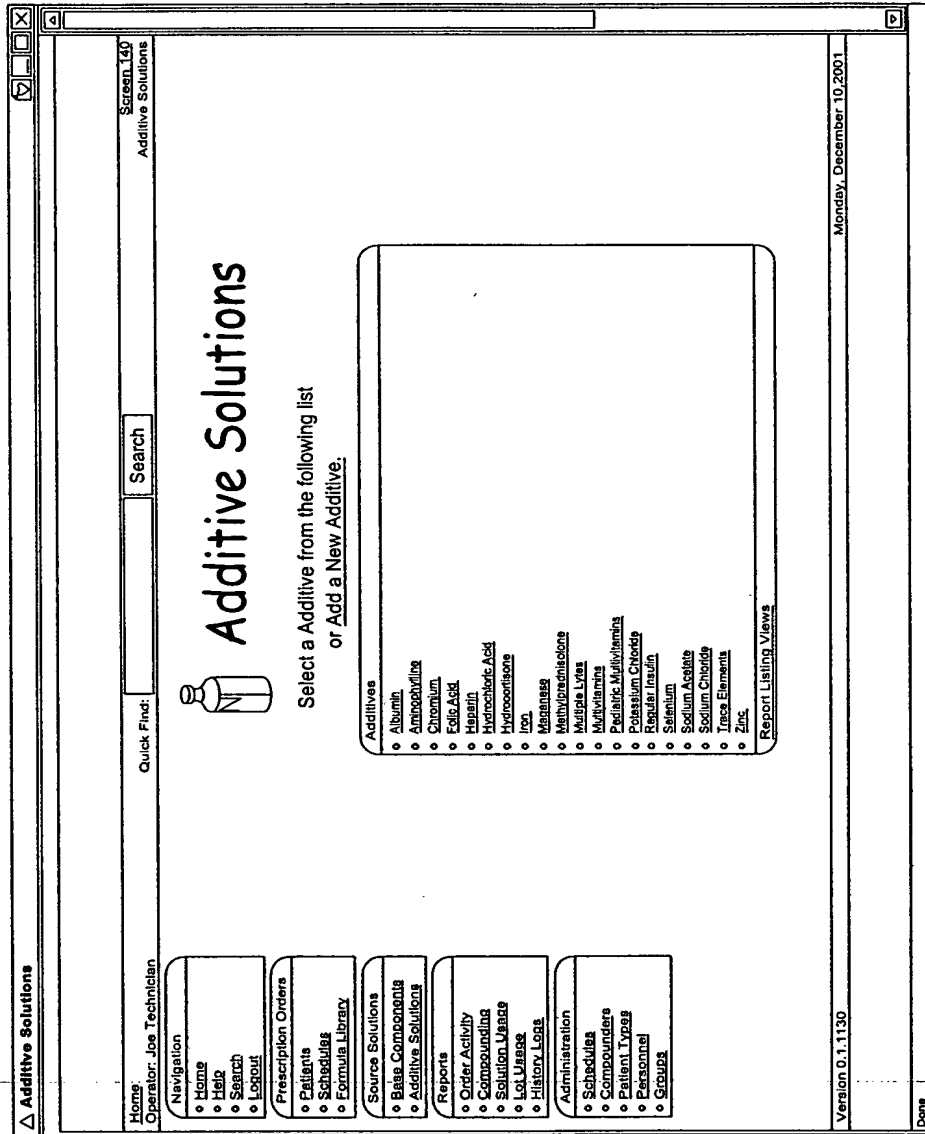


FIG. 11I(1)

75/100

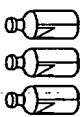
486

△ Additive Solution Inventory

Screen 141
Additive Solution Inventory

Home
Operator: Joe Technician

Date Entry

 **Additive Solution Inventory**

History: Created 09/09/2001

Record Status: Enabled Disabled

Automatic Selection: Allow Disallow

Solution Name:

Print on Label As:

Use of Patient Type: Adult Pediatric Neonate

Concentration:

Specific Gravity:

Pump Station: 1st Choice:

2nd Choice:

3rd Choice:

NDC Numbers:

Cost Per 100 mL: \$

Rinse After Dispensing: Yes No Automatic

Electrolyte Content:

Done

FIG. 11I(2)

76/100

486

△ Additive Solution Inventory

Pump Station: 1st Choice: Station 1 (Red) ▾
 2nd Choice: Station 1 (Red) ▾
 3rd Choice: Station 1 (Red) ▾

NDC Numbers:

Cost Per 100 mL: \$ Yes No Automatic

Rinse After Dispensing: Yes No Automatic

Electrolyte Content:

Na ⁺	<input type="text" value="3.00"/>	mmol/mL
K ⁺	<input type="text" value="0.00"/>	mmol/mL
Ca ⁺⁺	<input type="text" value="0.00"/>	mmol/mL
Mg ⁺⁺	<input type="text" value="0.00"/>	mmol/mL
PO ₄ ⁺	<input type="text" value="0.00"/>	mmol/mL
CL ⁻	<input type="text" value="0.00"/>	mmol/mL
AC ⁻	<input type="text" value="1.50"/>	mmol/mL

Notes:

Update Save changes to this Additive.
 Delete Delete this Additive.
 Cancel Exit without saving changes.

Version 0.1.1130 Done

Tuesday, December 11, 2001

FIG. 11I(3)

500



Home		TPN Manager	
Operator: System Administrator		Screen 187 Checklist	
Date Entry			
 Daily Checklist			
For Compounder: "Cmp-A"			
<input type="checkbox"/> add a new checklist item			
<input type="checkbox"/> View checklist reports for this compounder.			
<input type="checkbox"/> Done		Return to Menu.	
<input type="checkbox"/> Copy		Copies this checklist to a different compounder.	
Version 0.1.1.130		Tuesday, November 25 2001	

FIG. 11J(1)

500

Home
Operator: System Administrator
TPN Manager
Screen 182
Prescription Data Entry

Data Entry



Daily Checklist

For Compounder "Comp-A"

1. Disinfect Laminar Flow Hood Work Surfaces	edit	move up	move down	delete
2. Install New Transfer Set	edit	move up	move down	delete

add a new checklist item

view checklist reports for this compounder

Done

Return to Menu.

Copy

Copies this checklist to a different compounder.

Version 0.1.1.130 Tuesday, November 25, 2001

FIG. 11J(2)

79/100

Container Label 0

Mx Automatic Compounder

Patient: Test Patient # 1 ID# 111-11-1111
 Location: Room 222, Bed1 Weight: 34.0 Kg
 Order # Container 1
 Physician: Dr. Smith

Bag ID# 0001 Delivery Time: 06-26-01 08:00 AM
 Infusion Rate: 125 mL/hr Infusion Volume: 0 mL Infusion Period: 0 hrs

Sterile Water	111.00 mL	Order Volume: Minimum Container Overfill: None Compounded Vol: 0 mL
Dextrose 70%	222.00 mL/Liter	
Intralipid 10%	333.00 mL/Kg	
BranchAmin	999.00 mL	

This solution contains 0.00 gm/liter Total Amino Acid
 The Total Amino Acid Contain 0.0% Branched Chain Amino Acids.

Additives	Dose
Sodium Chloride	1.00 mEq
Potassium Chloride	2.00 mL/Liter
Sodium Acetate	3.00 mEq NA+/100Kg
Zinc	0.50 mL/100Kg

Prepared by _____ Unknown
 Final notes:
 Expires: Unknown Hung By _____ at _____
 Intended to Use with Piggyback: Intralipid 10%

Piggyback Container Label 0

Mx Automatic Compounder

Patient: Test Patient # 1 ID# 111-11-1111
 Location: Room 222, Bed1 Weight: 34.0 Kg
 Order # Container 1
 Physician: Dr. Smith

Bag ID# 0001 Delivery Time: 06-26-01 08:00 AM
 Infusion Rate: 125 mL/hr Infusion Volume: 0 mL Infusion Period: 0 hrs

Piggyback Container

Intralipid 10%	333.00mL/Kg
----------------	-------------

Osmolarity: 3.4567

Electrolytes Contained in Piggyback

NA+	3.02 mEq/liter
CL-	2.00 mEq/liter
AC-	0.51 mEq/liter

Prepared by _____ Unknown

Worksheet 0

Mx Automatic Compounder

Printed 12-30-99 12:00 AM

Patient: Test Patient # 1 ID# 111-11-1111
 Location: Room 222, Bed1 Weight: 34.0 Kg
 Order # Container 1
 Physician: Dr. Smith

Bag ID# 0001 Delivery Time: 06-26-01 08:00 AM
 Osmolarity: 3.4456 Cost: \$ 123.45
 0 mL at 125 mL/hr will run for 0 hrs

Total Amino Acid 139.00 nm/liter. Total Amino Acid Contain 50% Branched Chain Amino Acids.

Base Comp	Conc	Order Dose	Code	Station	mL
Sterile Water	4.000 mEq	111.00 mL	1234-5678	Red	999.0
Dextrose 70%	4.000 mEq	222.00 mL/Liter	1234-5678	Red	999.0
Intralipid 10%	4.000 mEq	333.00 mL/Kg	1234-5678	Red	999.0
BranchAmin	4.000 mEq	999.00 mL	1234-5678	Red	999.0
Water			1234-5678	Red	999.0

Additive	Conc	Order Dose	Code	Station	mL
Sodium Chloride	4.000 mEq	1.00 mEq	1234-5678	Red	999.0
Potassium Chloride	4.000 mEq	2.00 mL/Liter	1234-5678	Red	999.0
Sodium Acetate	4.000 mEq	3.00 mEq NA+/100Kg	1234-5678	Red	999.0
Zinc	4.000 mEq	0.50 mL/100Kg	1234-5678	Red	999.0

Order Volume: Minimum Compounded Volume: 0 mL
 No overfill volume Use 9999 mL PVC Final Bag

worksheets notes
 Net Contents Wgt: 0.0 gm Estimated Final Container Total Wgt: 9999 gm
 Base Components: 9999 gm Additives: 9999 gm Retractive Index: 0.0000

Compounded by _____ Manual Adds by _____ Checked by _____

Nutrition Information 0

Mx Automatic Compounder

Patient: Test Patient # 1 ID# 111-11-1111
 Location: Room 222, Bed1 Weight: 34.0 Kg
 Order # Container 1
 Physician: Dr. Smith

Bag ID# 0001 No Overfill Volume
 Order Volume: Minimum Compounded Vol: 0 mL
 0 mL at 125 mL/hr will run for 0 hrs

This solution contains 0.00 gm/liter Total Amino Acid
 The Total Amino Acid Contain 0.0% Branched Chain Amino Acids. Osmolarity: 3.4567

Nutritional Content	%Total	%NPC
Nitrogen	0.00 gm/liter	
Protein	0.00 Kcal/liter	0%
Dextrose	0.00 Kcal/liter	0%
Lipid	0.00 Kcal/liter	0%
Total	0.00 Kcal/liter	100%
Net Protein	0.00 Kcal/liter	100%

Nutritional Ratios		
Total Kcals /Nitrogen		N/A
Protein Kcals /Nitrogen		N/A
Non-Protein Kcals /Nitrogen		N/A
Protein Kcals / Non-Protein Kcals		N/A
Lipid Kcals / Total Kcals		N/A

Electrolytes Total

NA+	3.02 mEq/liter
K+	0.00 mEq/liter
CA++	0.00 mEq/liter
MG++	0.00 mEq/liter
PO4-	0.00 mEq/liter
CL-	2.00 mEq/liter
AC-	0.51 mEq/liter

FIG. 12

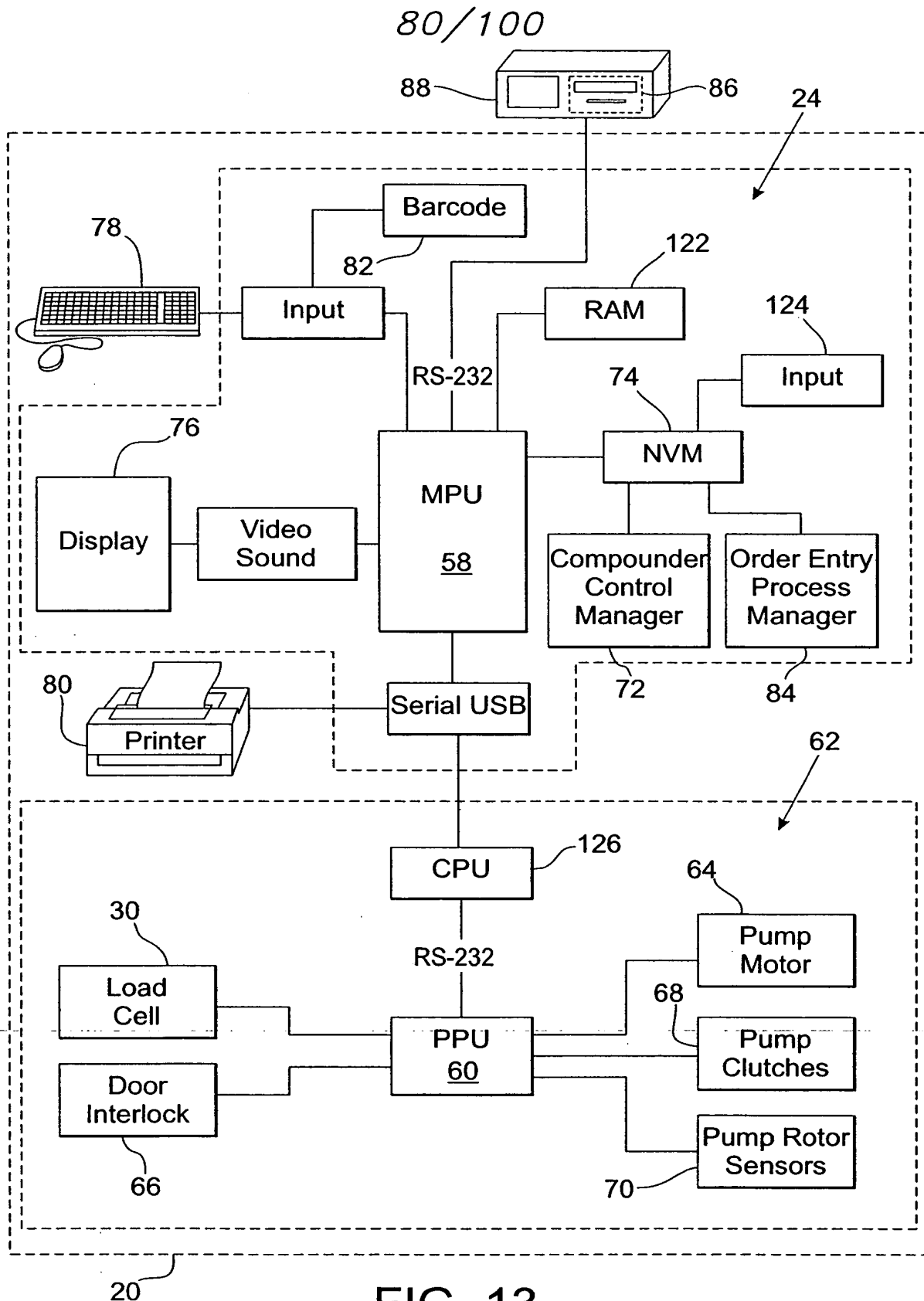


FIG. 13

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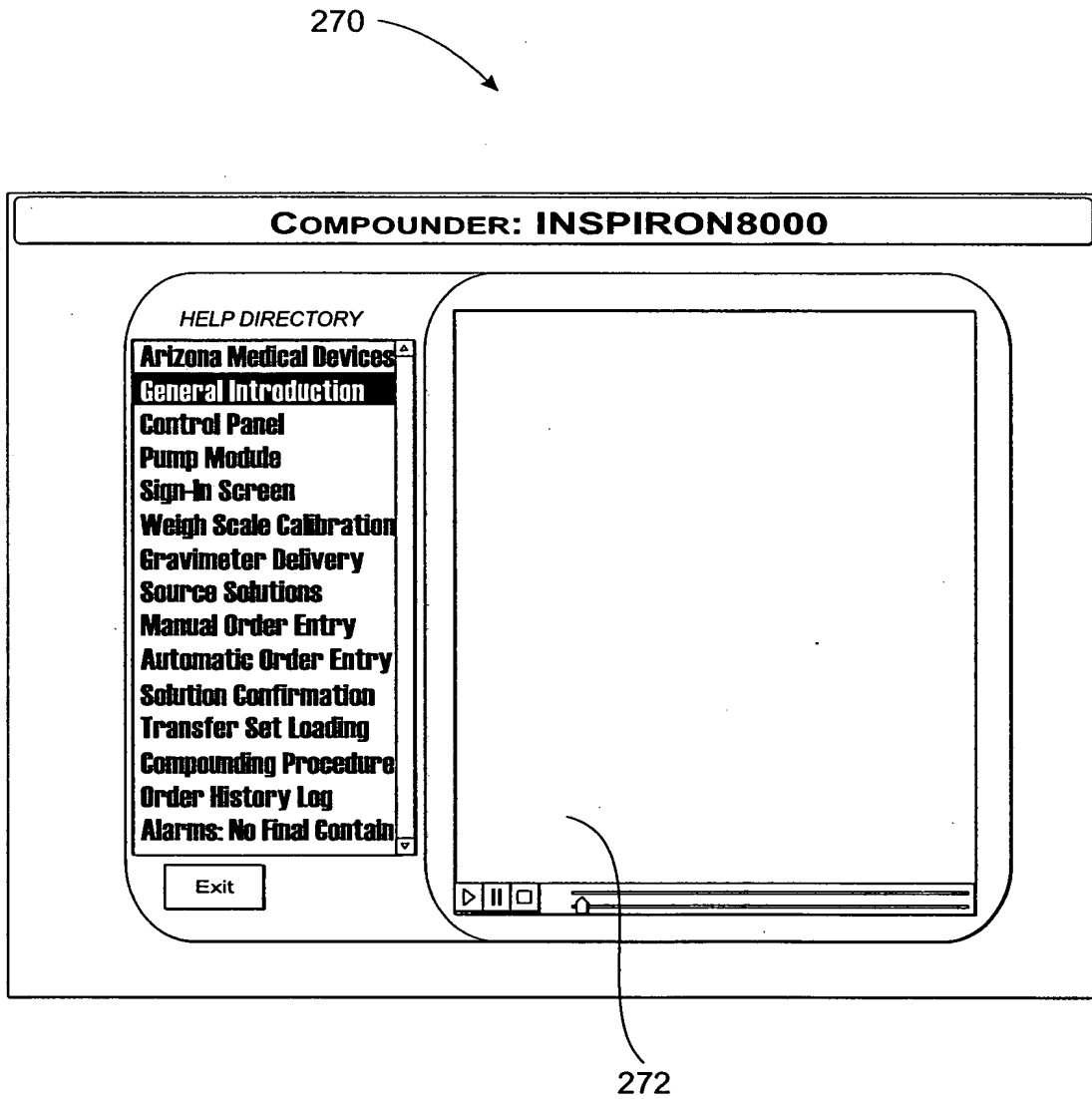


FIG. 14A

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272

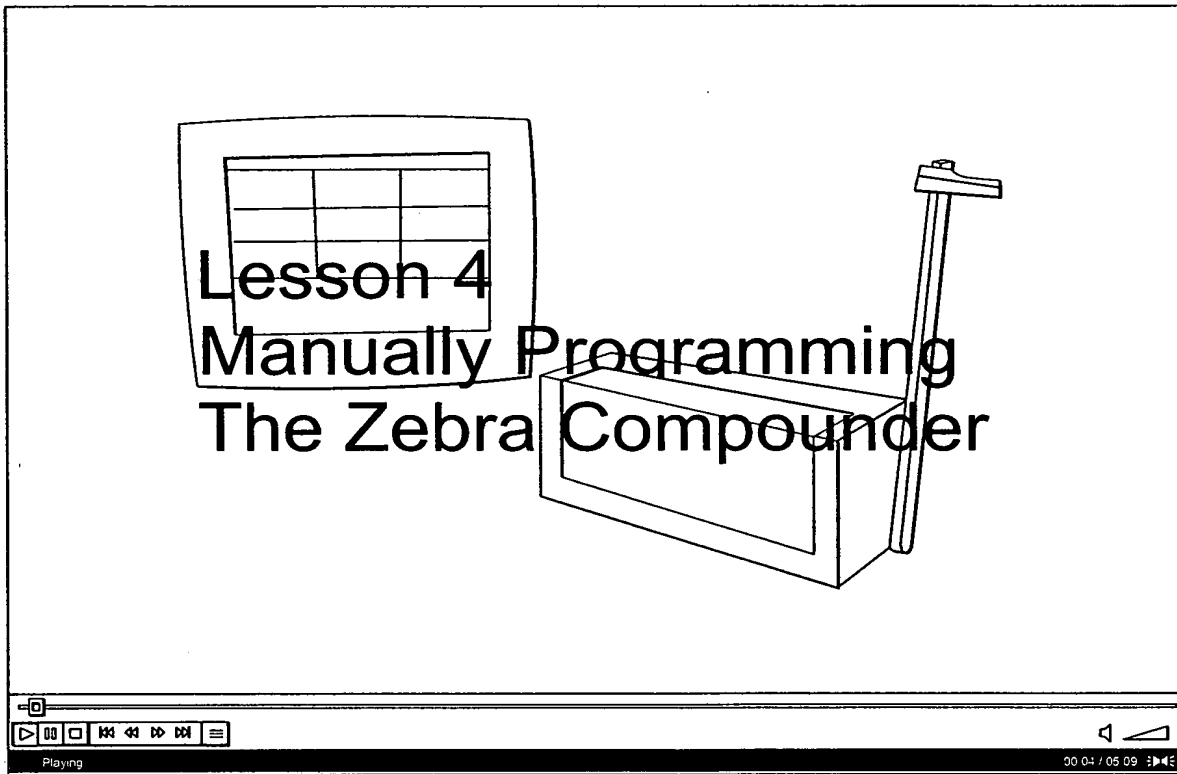


FIG. 14B (1)

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272

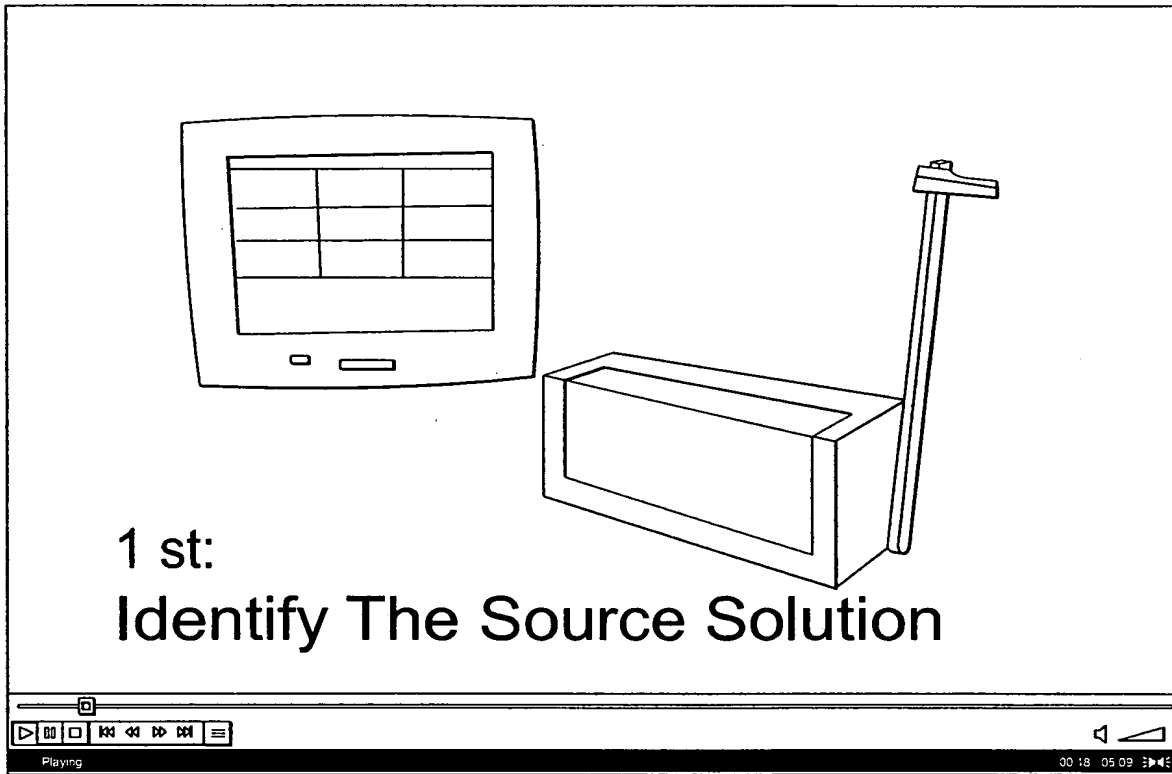


FIG. 14B (2)

84/100

272

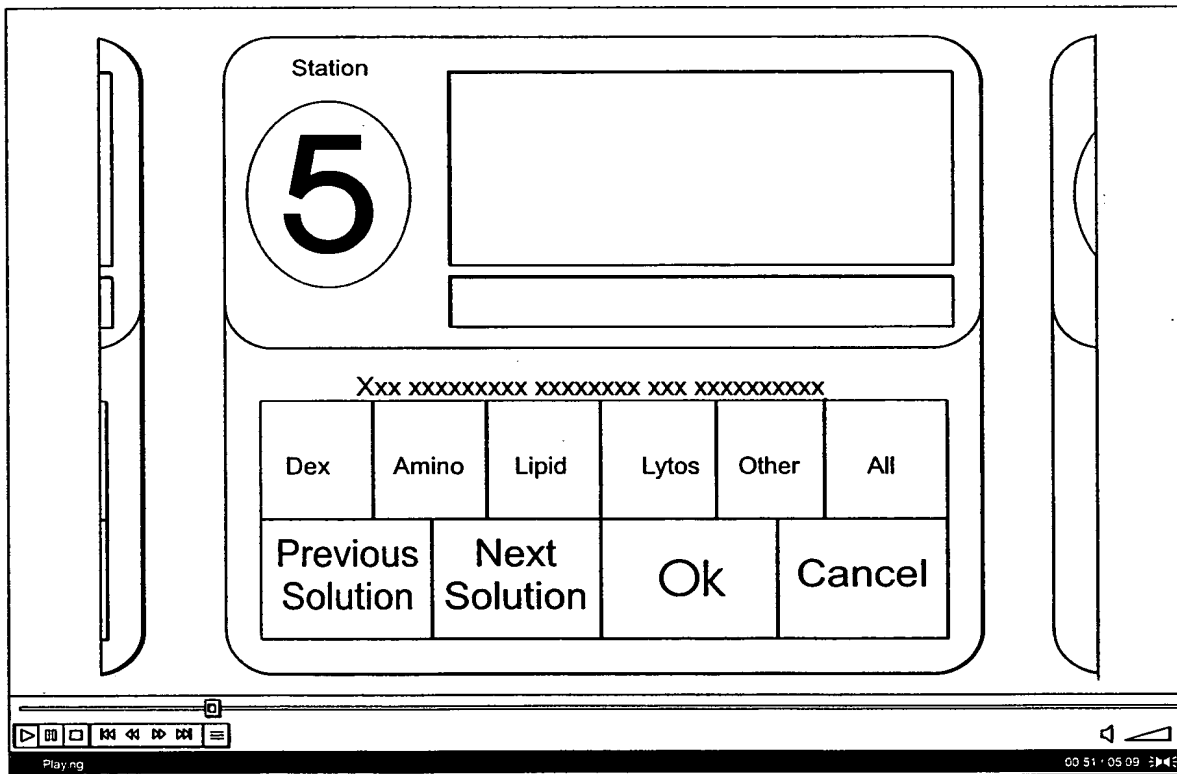


FIG. 14B (3)

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272

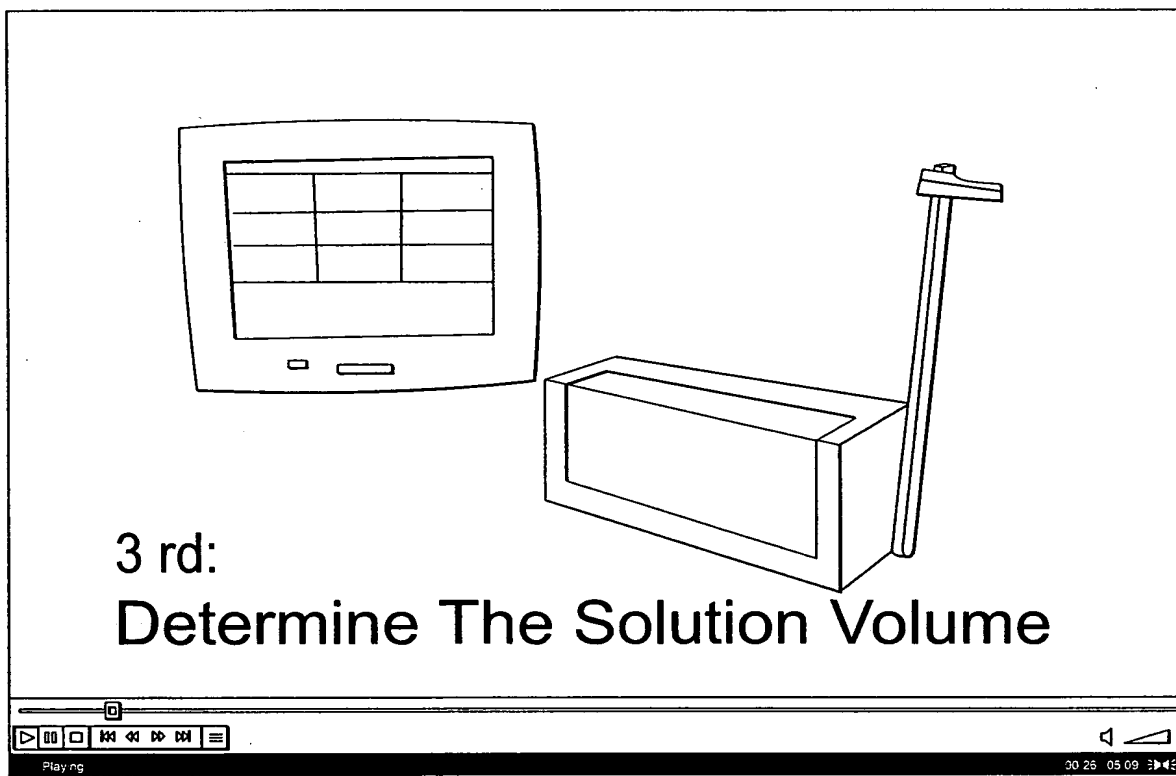


FIG. 14B (4)

86/100

272

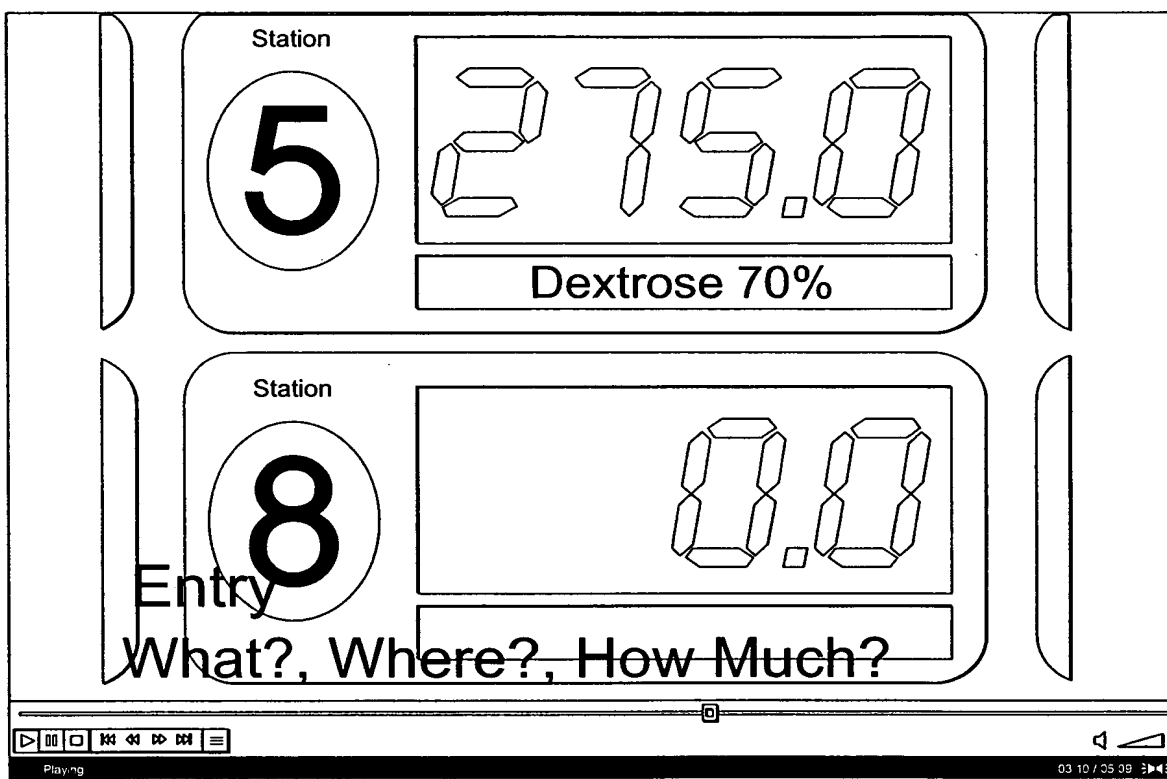


FIG. 14B (5)

87/100

272

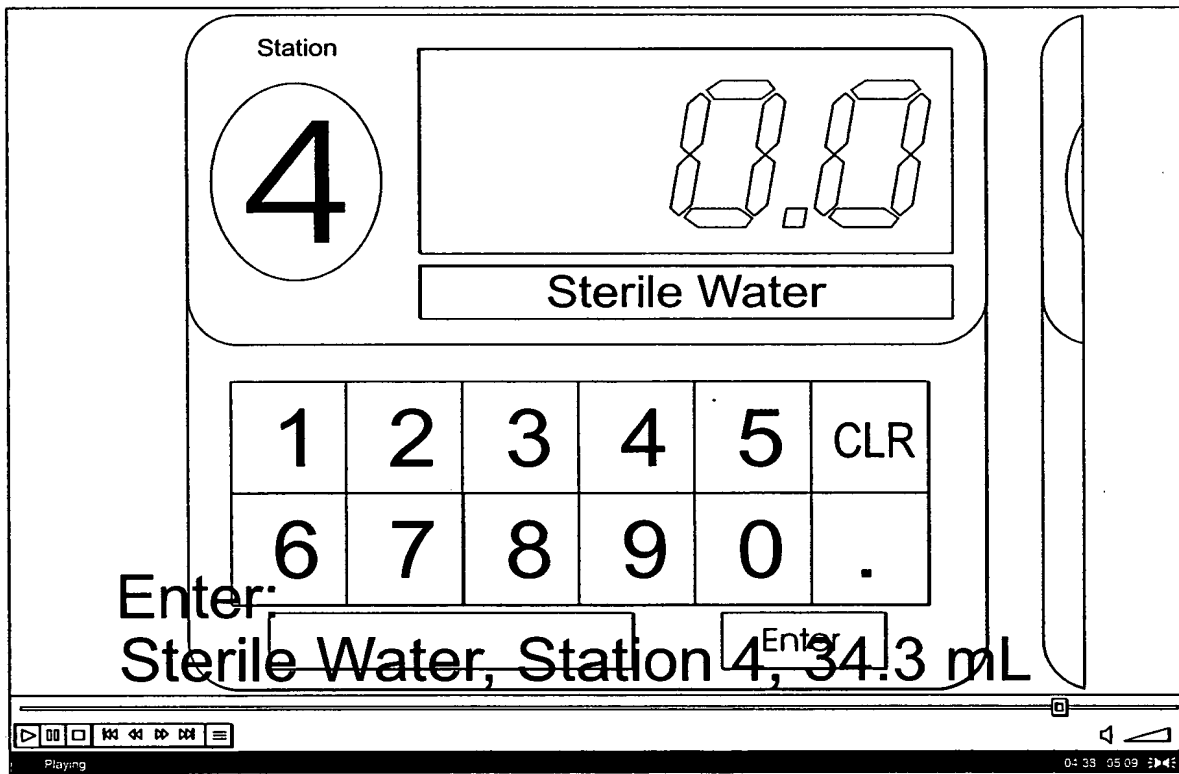


FIG. 14B (6)

88/100

272

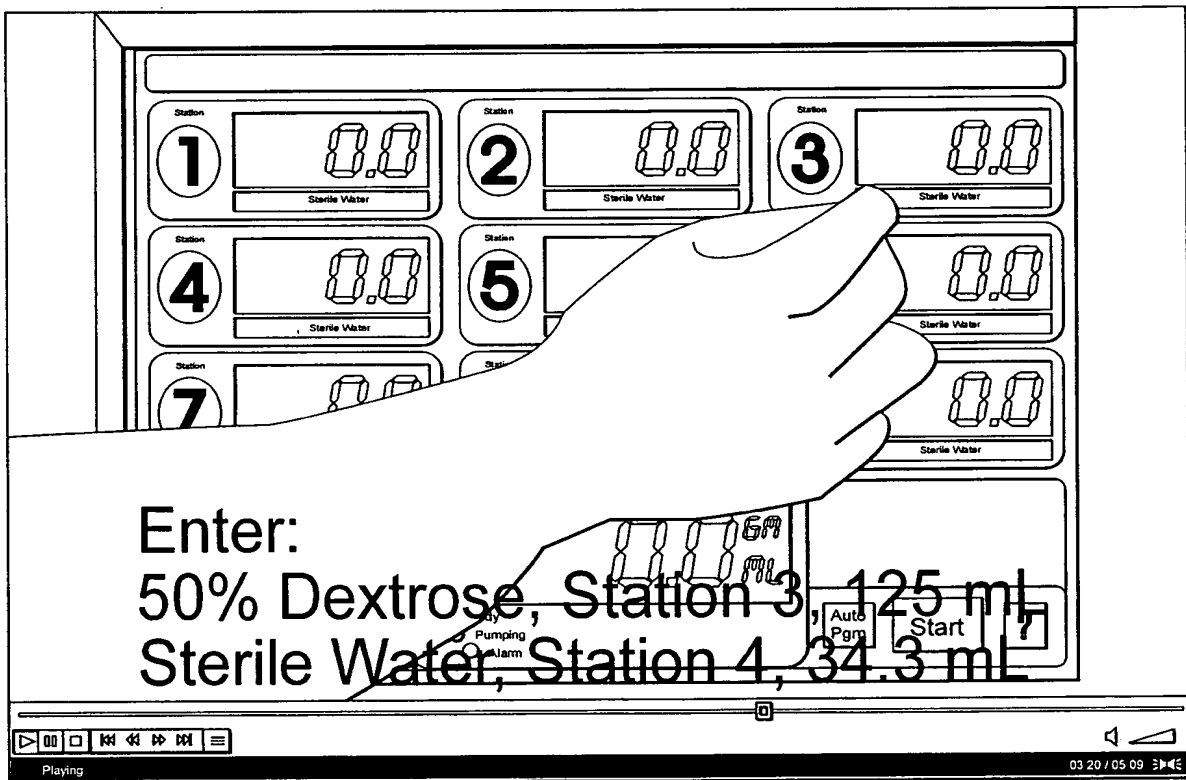


FIG. 14B (7)

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272

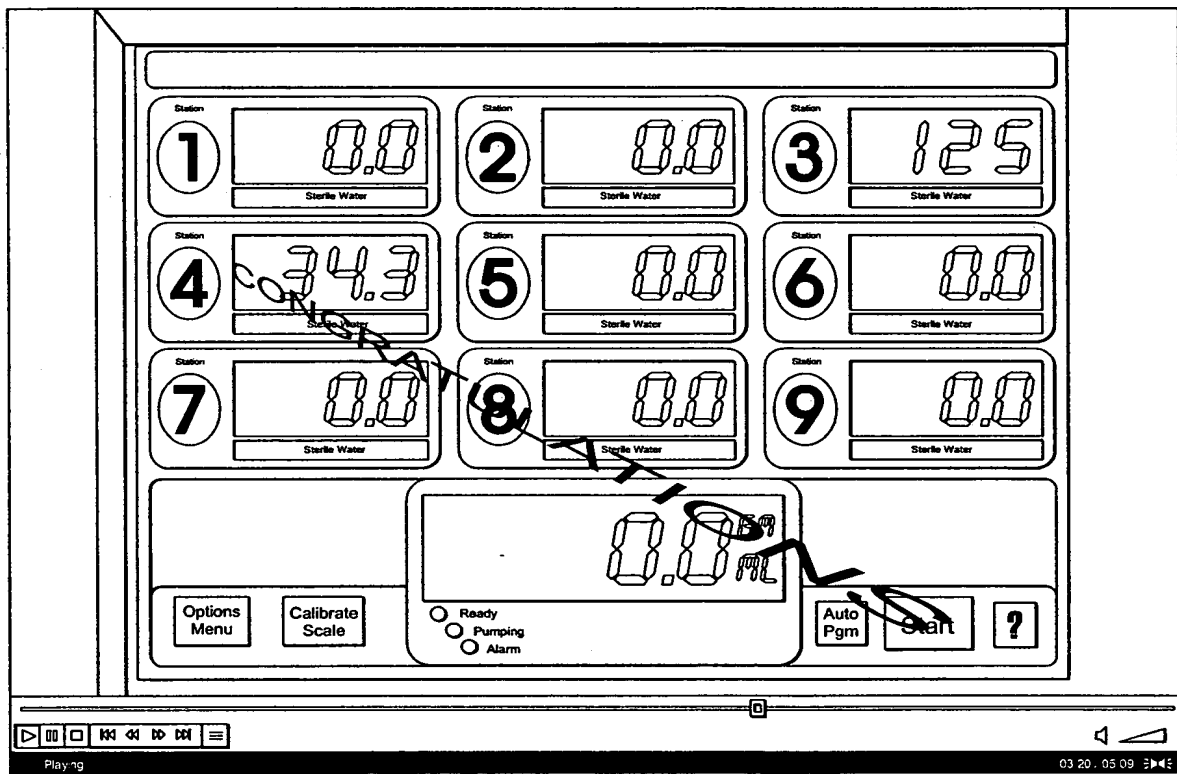


FIG. 14B (8)

CMP-A

Configuration

1502

1500

Compounder Approvals Barcode Sound Server Logon

Pharmacist Approvals can be required for all compounding operations, or only when a source solution container has been changed, or not at all:

Approval Required for Adult Patients
 None After Source Change Always

Approval Required for Pediatric/Neonate Patients
 None After Source Change Always

Approval Required for Manual Compounding
 None After Source Change Always

Save ? Close

FIG. 15A

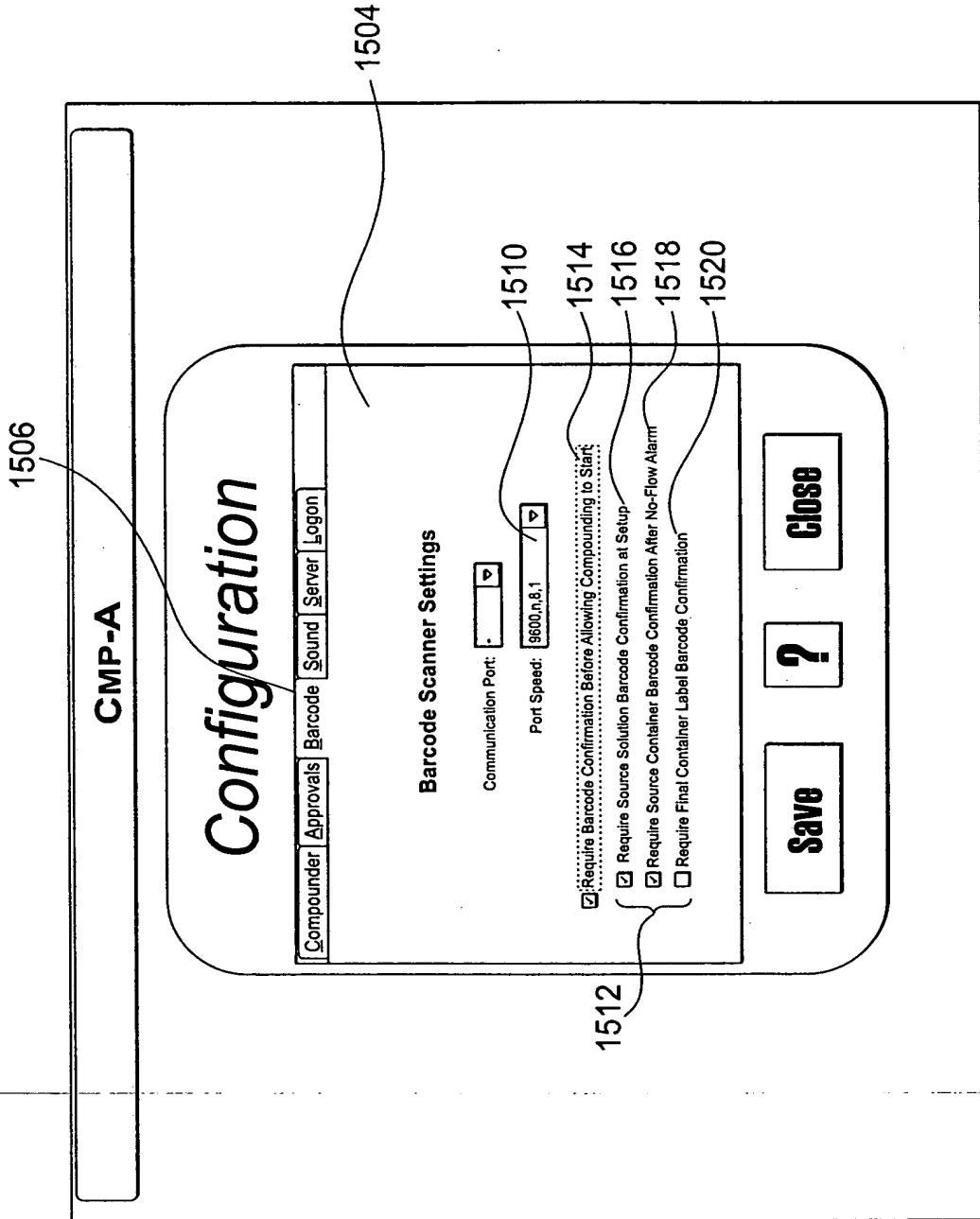


FIG. 15B

+

92/100

Screen is Frozen for Cleaning...

0:26

Press 'ESC' to close this screen immediately

FIG. 16

+

93/100

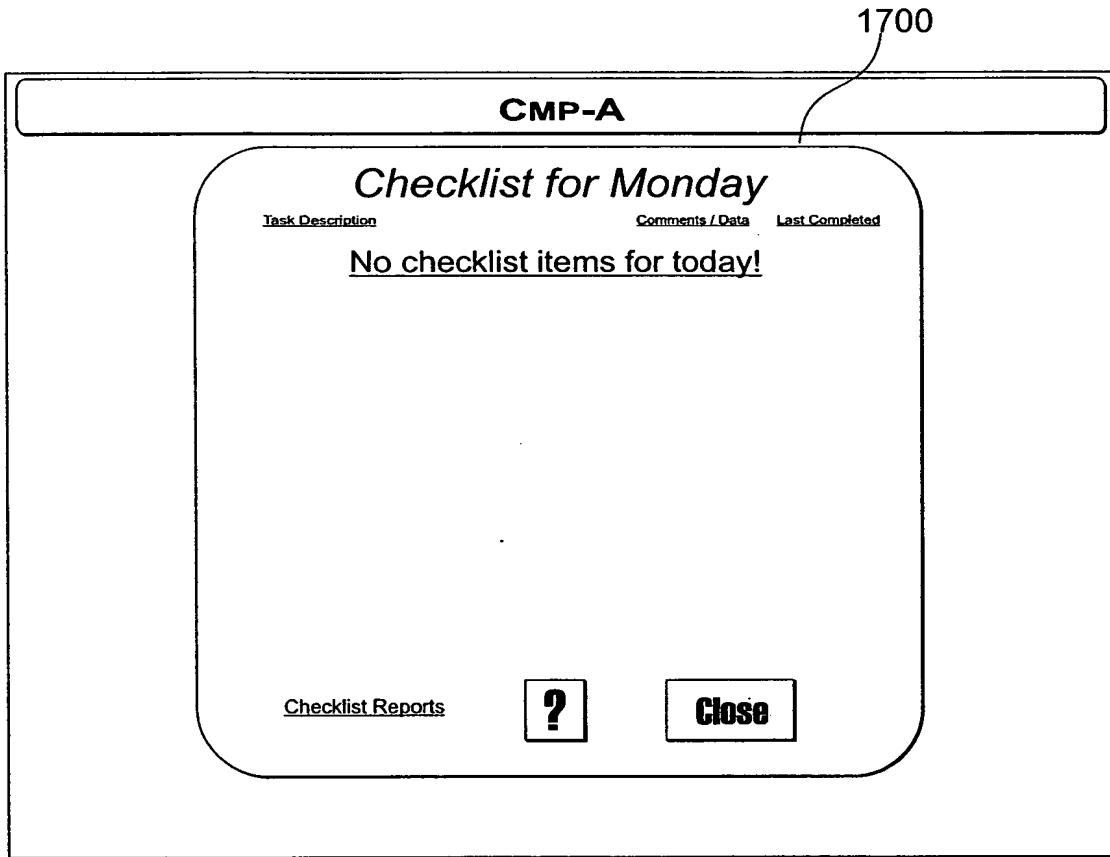


FIG. 17

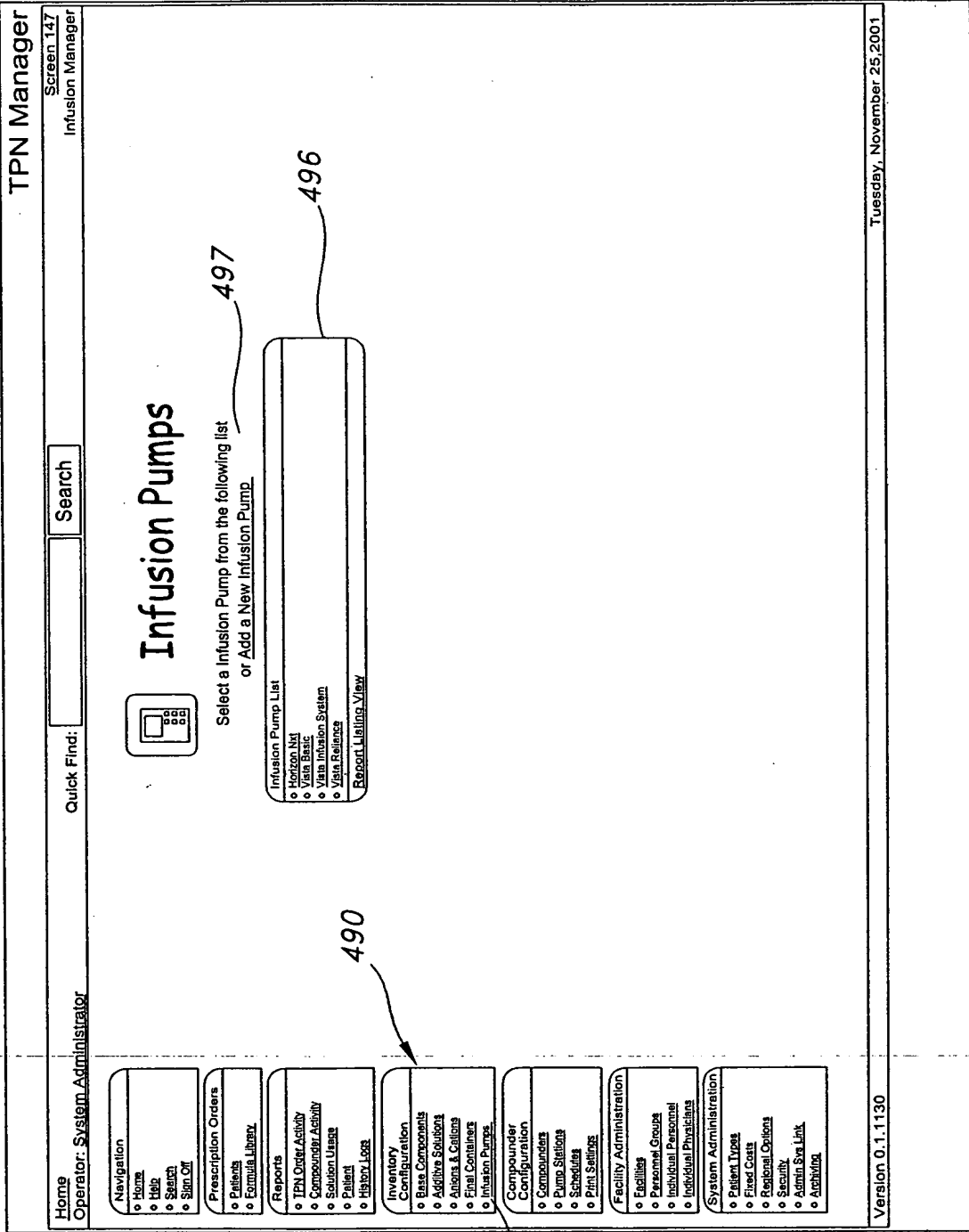


FIG. 18A

498

TPN Manager	
Home Operator: System Administrator	Screen 148 IV Pump Inventory
Data Entry	
IV Pump Inventory	
History: Created 11/24/2003	
Record Status: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
IV Pump Model: Horizon Nxt	
IV Pump Description: Hospital Pump with barcode reader	
<input type="button" value="Update"/>	Save changes to this Record.
<input type="button" value="Delete"/>	Delete this Record.
<input type="button" value="Cancel"/>	Exit without saving changes.
Version 0.0.3971	
Tuesday, November 25, 2001	

FIG. 18B

96/100


1900

TPN Manager

Home Data Entry Screen 118
Operator: Pharmacist Nutritional Assessment

Nutritional Assessment

Current Patient Information
Edit Patient Record

Patient Name: Test Patient #1 Location: Room 222, Bed 1 Diagnosis: diagnosis 1 diagnosis 2 Allergies: None Physician: Patient Type: Adult ASPEN Class: Adult	Patient ID: 111-11-1111 Age: 22 Years Sex: Male Height: 77.0 cm Weight: 44.0 Kg	
--	--	---

1902

Patient Information for the Assessment

Assessment Title:
 Last Updated: **Monday, November 24, 2003, 11:30 am**
 Patient: **Male** Age: years
 ASPEN Class: Neonate Pediatric Adult Geriatric
 Weight: Kg Height: cm
 Inpoly Factor: ▾
 Stress Factor: ▾

1904

Update Assessment

Delete Assessment

1905 1907

Calculated Nutritional Requirements

Ideal Body Weight: **50 Kg (110 Lbs)**
 Condition Assessment: **MALNOURISHED**
 Adjusted Body Weight: **440 Kgs (97 Lbs)**
 Resting Energy Expenditure: **906 Kcal/Day**
 Recommended Calorie Range: **1087 to 1177 kcal/Day**
 Recommended Protein Range: **52 to 66 gm/Day**
 Recommended Fluid Range: **2376 to 2970 mL/Day**

1906

Compare this nutritional assessment to an existing order

Enter a TPN Order based on this nutritional assessment

1908 1909

Done

1910

Version 0.0.3971 Tuesday, November 25, 2001

FIG. 19

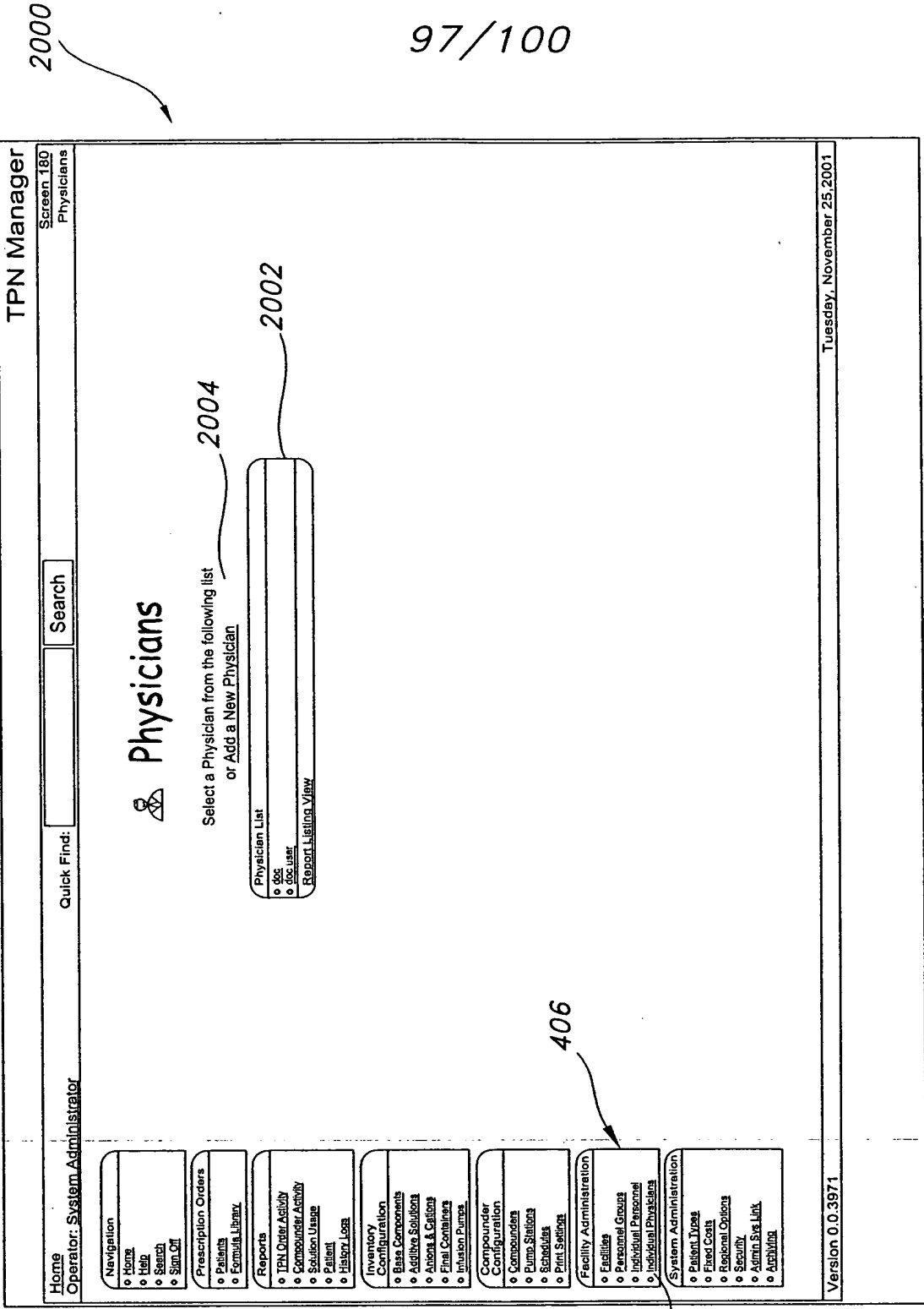
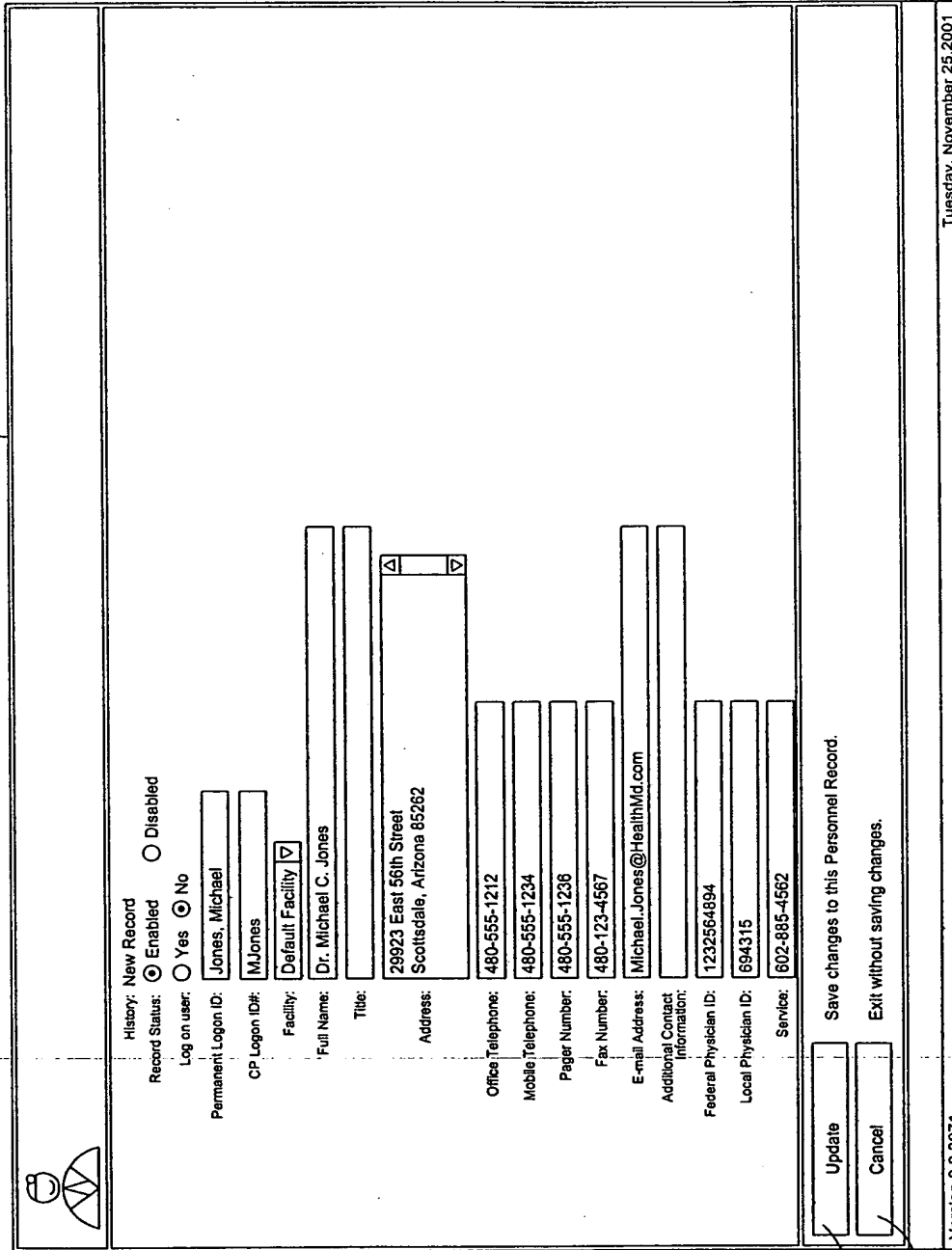


FIG. 20A

2006



The form displays user profile information for Dr. Michael C. Jones. It includes fields for record status, logon information, contact details, and identification numbers. At the bottom, there are 'Update' and 'Cancel' buttons, and a footer with version and date information.

History: New Record	Record Status: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Log on user: <input type="radio"/> Yes <input checked="" type="radio"/> No	Permanent Logon ID: Jones, Michael
CP Logon ID#: MJones	Facility: Default Facility
Full Name: Dr. Michael C. Jones	Title:
Address: 29923 East 56th Street Scottsdale, Arizona 85262	Office Telephone: 480-555-1212
Mobile Telephone: 480-555-1234	Pager Number: 480-555-1236
Fax Number: 480-123-4567	E-mail Address: Michael.Jones@HealthMd.com
Additional Contact Information:	Federal Physician ID: 1232564894
Local Physician ID: 694315	Service: 602-885-4562
Update	Save changes to this Personnel Record.
Cancel	Exit without saving changes.
Version 0.0.3971	
Tuesday, November 25, 2001	

2007

2008

FIG. 20B

99/100

TPN Manager

Operator: Pharmacist Data Entry Section 143
 TPN Order Entry

2103 Patient Information **2100** Edit Patient Record

Test Patient #1 Room # Age Sex Weight Height
 111-11-1111 22 Years Male 77.0 cm 44.0 Kg

I.V. Container Information

2102 Prescription Order

Order Number: TPN1001-TEST Order History: 11/23/2003 18:43:04 (pharm) Changed TPN Order

Batch Code: Batch Code: 5 Repeating Order: No Yes

Inflation Volume: Minimum Possible Inflation Rate: 125.00 mL/ Hour Inflation Period: 8.00 Hours

or 1000 mL Total Per Kg

Order Volume: 30 mL Delivery Date: 11/25/2003 Delivery Time: 12:00 AM

I.V. Pump: Standard Kit Task: Admin Route: Central Peripheral PICC

Container Label Notes: Worksheet Label Notes:

2106 Submit Changes

2108 Base Components

Base Component	Order Dose	mL	Edk
Fructose 10%	250.00 mL	250.00	detail
Dextrose 70%	150.00 mL	150.00	detail

Add Solution to Order

Solution: Order Dose: Per: Pre-Fill Container: Piggyback Final Container

2110 Additives

Additive Solution	Order Dose	mL	Edk
Fructose 10%	8.00 mEq	2.00	detail
Dextrose 70%	5.00 mEq	1.70	detail

Add Solution to Order

Solution (Default Unit): Order Dose: Per: Additive Pending: Yes No Pool Container Overfill: 10 mL

2111 **2104** Submit Changes

2104 Nutritional Summary

Order Summary	Nutritional Content	Electrolyte Content
Compound Volume: 1030.0 mL Osmolarity: 852 mOsm/L Aluminum Content: 8 mg/Kg	4 gms Nitrogen 300 Kcal Protein 300 Kcal Dextrose 0 Kcal Lipid 450 Kcal Total	5 mEq Na+ 5 mEq Cl- 7.68 K+ 5.1 mmolPO4- 0mEq Ca++ 0mEq Mg++ 0mEq AC-

2104 Order Status

Open	Submitted	Authorized	Printed	Compounded
Open to Order Entry	Reviewed by Pharmacist & Authorized	Review Completed Ready for this Label	Label Printed Ready for Compounding	Order Completed, Ready for Safety & Patient

I have reviewed this order for accuracy and compliance with the policies at this facility

Schedule:

Authorizing Pharmacist Pharm Tuesday, November 25, 2003

Authorizes Compounding

Print Order

Delete this TPN Order

Copy this TPN Order for a New Order

Copy this TPN Order to the Formula Library

Done

FIG. 21A

100/100

2120

TPN Manager

Home Operator: Joe Technicien Data Entry Screen 14 Additive Solution Inventory



Additive Solution Inventory

History: Created 11/24/2003

Record Status: Enabled Disabled

Solution Name: Sodium Acetate

Print on Label As: Sodium Acetate

Solution Type: Electrolyte Vitamins Trace Minerals Medication Other

Additive Pooling: Allow Disallow

Print Option: List Individually Electrolyte Summary

Concentration: 4.000 mEq/mL

Specific Gravity: 1.15

Osmolarity: 8008 mOsm/L

Aluminium Content: 0.00 mg/L

Patient Type(s):

- Adult
- Neonate
- Pediatric

Product NOC Numbers:

Cost per mL: \$ 0.00

Electrolyte Content:

Na+(mEq/ml)	4.0000
CL-(mEq/ml)	4.0000
K+(/ml)	
Ca++(mEq/ml)	
Mg++(mEq/ml)	
PO4-(mEq/ml)	
AC-(mEq/ml)	

Add or Edit the Available Electrolytes

Notes:

- Save changes to this Additive.
- Delete this Additive.
- Exit without saving changes.

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FIG. 21B